ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE 1 INVESTIGATION

Dover Landfill

Site No. 314066

Town of Dover, Dutchess County

Final - August 1986



Prepared for:

New York State
Department of
Environmental Conservation

50 Wolf Road, Albany, New York 12233 Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste Norman H. Nosenchuck, P.E., Director

Prepared by:





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DOVER LANDFILL
TOWN OF DOVER, DUTCHESS COUNTY
NEW YORK ID NO. 314066

Prepared for

Division of Solid and Hazardous Waste

New York State Department of Environmental Conservation

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A Division of EA Engineering, Science, and Technology, Inc.

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APPENDIX 1
APPENDIX 2

1. EXECUTIVE SUMMARY

The Dover Landfill site (New York ID No. 314066, EPA ID No. New) is an inactive landfill, approximately 5 acres in size, located on Pleasant Ridge Road, Town of Dover, Dutchess County, New York. The site is located on private property owned by Leo and Helen Mostachetti.

The landfill began operation in 1943-1945, receiving only residential waste from the Village of Wingdale. More recently, the landfill was leased and operated by the Town of Dover. The annual quantity of solid waste received at the site was estimated at 4,500 tons, almost all of which was residential. A small quantity of commercial waste was accepted, however, no industrial waste was permitted to be disposed of at the landfill. A shipment of hospital waste was disposed of at the site in 1982, though a radiological search resulted in no findings. There is no documentation of hazardous waste disposal at the Dover Landfill, and no data is available to evaluate the status of potential contaminant transport routes.

The preliminary HRS scores for the Dover Landfill are as follows: Migration Score $(S_M) = 0$; Direct Contact Score $(S_{DC}) = 0$. The low Migration Score is due to the lack of information pertaining to the presence of hazardous wastes at the site. The maximum potential migration score that can be estimated, assuming detection of a release of toxic and persistent compound to ground water and to surface water, is 27.53.

It is recommended that a Phase II program be conducted at the site if a determination of surface and ground-water quality is desired. The site has not been properly closed and leachate stains have been observed at the perimeter of the landfill. The proposed Phase II study includes the installation of three pairs of test borings/observation wells, and the collection and analysis of ground-water, surface water, leachate, and sediment samples. The total estimated cost to complete the Phase II investigation is \$79,765.

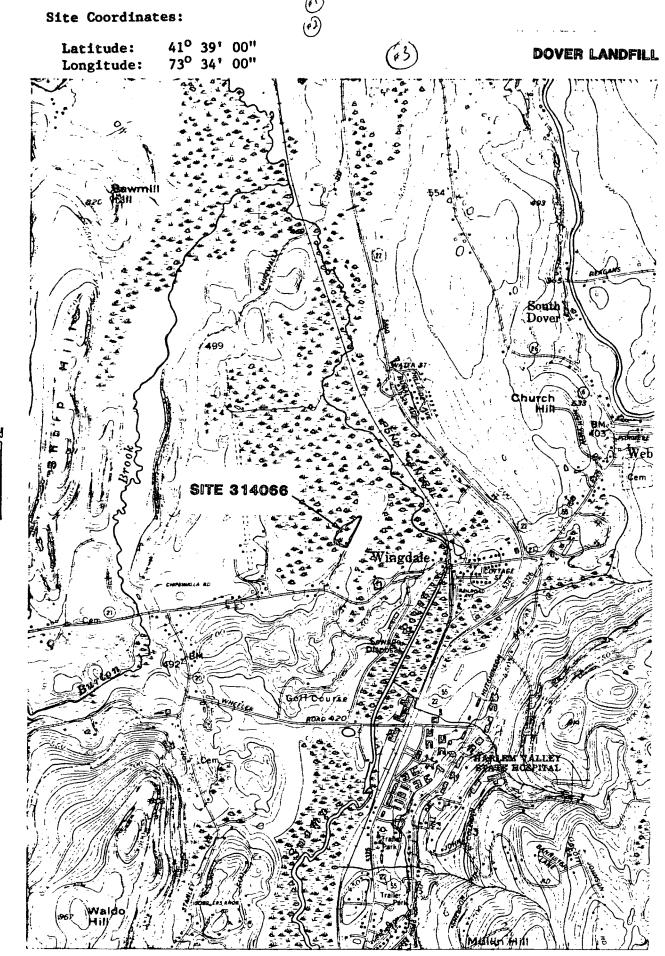


Figure 1-1. Locator map (Base map: NYSDOT. 1977 edition. 7.5-Minute Series Topographic. Scale 1:24,000).

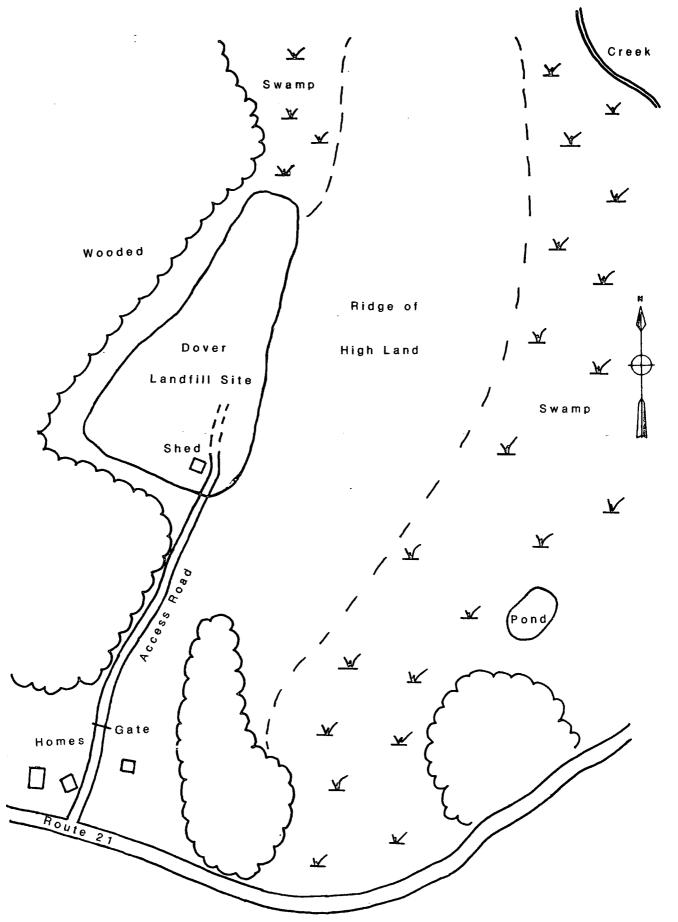


Figure 1-2. Site sketch. Dover Landfill site, 16 January 1985. (Not to scale.)

2. PURPOSE

The Dover Landfill was listed on the New York State Registry of Inactive Hazardous Wastes Sites simply because it is an inactive landfill.

The goal of the Phase I investigation of this site was to: (1) obtain available records on the site history from state, federal, county, and local agencies; (2) obtain information on site topography, geology, local surface water and ground-water use, previous contamination assessments, and local demographics; (3) interview site owners, operators, and other groups or individuals knowledgeable of site operations; (4) conduct a site inspection to observe current conditions; and (5) prepare a Phase I report. The Phase I report includes a preliminary Hazard Ranking Score (HRS), an assessment of the available information, and a recommended work plan for Phase II studies if warranted. Phase II studies are suggested if sampling and analyses will better support the HRS and possibly result in a higher score.

3. SCOPE OF WORK

The Phase I investigation of the Dover Landfill involved a site inspection by EA Science and Technology, as well as record searches and interviews. The following agencies or individuals were contacted:

Contact

Information Received

Mr. Leo Mostachetti Site Owner Mountain Road Wingdale, New York 12594 (914) 832-6146

Mr. Richard Rennia Member, Town of Dover Board Pleasant Ridge Road Wingdale, New York 12594 (914) 877-3710

Mr. William Sullivan, P.E. Senior Sanitary Engineer New York State Department of Environmental Conservation 21 South Putt Corners Road New Paltz, New York 12561 (914) 255-5453

Mr. Jack Hill Director of Environmental Health Dutchess County Health Department County Office Building 22 Market Place Poughkeepsie, New York 12601 (914) 431-2044

Mr. Charlie Shaw
Dutchess County Environmental
Management Council
Route 44
Millbrook, New York 12545
(914) 677-3488

Interview

Participated in Site Inspection

In-place toxics file

Site file

Site file

Contact

Information Received
No file/information

No file/information

Mr. Louis A. Evans, Atty.

New York State Department of
Environmental Conservation

202 Mamaroneck Avenue

White Plains, New York 10601-5381

(914) 761-6660

Mr. Marsden Chen, P.E. No file/information
New York State Department of
Environmental Conservation

Remark of Size Control

Bureau of Site Control 50 Wolf Road Albany, New York 12233-0001 (518) 457-0639

Mr. Kevin Walter, P.E.

New York State Department of
Environmental Conservation

Division of Hazardous Waste Enforcement
50 Wolf Road

Albany, New York 12233-0001

(518) 457-5637

Mr. John Iannotti, P.B.

No file/information
New York State Department of
Environmental Conservation
Bureau of Remedial Action
50 Wolf Road
Albany, New York 12233-0001
(518) 457-5637

Mr. Earl Barcomb, P.E.
New York State Department of
Environmental Conservation
Landfill Operations
Vatrano Road
Albany, New York 12205
(518) 457-2051

Mr. Peter Skinner, P.E. New York State Attorney General's Office Room 221 Justice Building Albany, New York 12224 (518) 474-2432 No file/information

Site file

Contact

Mr. Ron Tramontano/Mr. Charlie Hudson

Bureau of Toxic Substance Assessment New York State Department of Health Empire State Plaza Corning Tower Building Albany, New York 12237 (518) 473-8427

Mr. James Covey, P.E. New York State Department of Health Empire State Plaza Corning Tower Building Albany, New York 12237 (518) 473-4637

Mr. Alvin Reilley New York State Department of Health Regional Director of PH Engineering 145 Huguenot Street Fifth Floor New Rochelle, New York 10801 (914) 632-4133

Mr. Perry Katz U.S. Environmental Protection Agency Region II Room 757 26 Federal Plaza New York, New York 10278 (212) 264-4595

Ms. Diana Messina U.S. Environmental Protection Agency Region II Surveillance and Monitoring Branch Woodbridge Avenue Edison, New Jersey 08837 (201) 321-6776

Mr. Wayne Eliott Regional Fisheries Manager New York State Department of Environmental Conservation 21 South Putt Corners Road New Paltz, New York 12561 (914) 255-5453

Information Received

No file/information

Community Water Supply Atlas

No file/information

No file/information

No file/information

Surface water use for recreation

Contact

Mr. Robert F. Dibble
District Conservationist
Dutchess Soil and Water
Conservation District
Farm and Home Center
Route 44, Post Office Box 37
Millbrook, New York 12545
(914) 677-3194

Information Received

Irrigation

4. SITE ASSESSMENT - DOVER LANDFILL

4.1 SITE HISTORY

The Dover Landfill, approximately 5 acres in size, is located on private property owned by Leo and Helen Mostachetti. Mr. Mostachetti indicated during the site inspection that the landfill began operation in approximately 1943-1945, receiving only residential garbage from the Village of Wingdale (Appendix Al.1-1). More recently, the site was leased and operated by the Town of Dover. The landfill received residential and commercial wastes until closure in 1983. The disposal site operated as an open-faced dump and the annual quantity of waste received was estimated at 4,500 tons (Appendix Al.1-2). Both putrescible and non-putrescible garbage was received with no segregation of material, and open burning was common practice. A complaint issued by a neighbor indicates that unsightly and unsanitary conditions existed as early as 1968 (Appendix Al.1-3).

In 1972, legal action was taken against the Town of Dover by the Dutchess County Department of Health (DCDOH) to restrain the Town from using the landfill due to violations of the State Health Laws and Sanitary Codes (Appendix Al.1-4). A field inspection by DCDOH (Appendix Al.1-5) in 1973 indicated deposition of wastes in an unapproved low, swampy area. In 1974, the Commissioner of Health found the Town of Dover landfill to be operating in violation of Part 360 Regulations and demanded that plans be prepared and actions taken to upgrade those operations (Appendix Al.1-6).

"Operational Plan - Addendum Number One, Town of Dover Sanitary Landfill" was prepared by R. Friedman, P.E., in 1978 (Appendix Al.1-2). The plan suggested that the refuse be nearly 100 percent residential type, with only a small fraction from the commercial sector. No industrial wastes were to be accepted. Approximately 20 tons per day were to be landfilled. The plan mentions that a freshwater wetland was located about 25 ft away from the landfill, and that soils underlying the area were fine, sandy loam, and peat. Geological investigations indicated shallow depth to bedrock and approximately 6 ft to ground water.

Files at the DCDOH contained a draft of an operations permit issued by the New York State Department of Environmental Conservation (NYSDEC) in 1979 to the Town of Dover for the landfill in question (Appendix Al.1-7). The expiration date issued in that permit was 31 March 1982.

An inspection of the landfill by DCDOH on 11 May 1979 revealed that leachate stains were visible at various locations around the perimeter of the site, and that the quality of daily cover was not adequate (Appendix Al.1-8). DCDOH requested the Town of Dover to correct the problems.

The landfill was inspected during early 1980 by the DCDOH, and again was found to be operating in violation of State solid waste management laws, and the operation permit specifically (Appendix Al.1-9). Problems with quality and frequency of cover were cited.

The landfill evidently received a shipment of waste from a hospital in 1982, but a radiological search by the DCDOH yielded nothing (Appendix Al.1-10). A DCDOH memo indicates that the landfill was closed to the public in June of 1983, and that the DCDOH was endeavoring to get the landfill properly (engineered) closed as of November 1984 (Appendix Al.1-11).

4.2 SITE TOPOGRAPHY

The Dover Landfill is located aproximately 1,000 ft north of State Route 21 (Figures 1-1 and 1-2). Access to the site is via a dirt road off Route 21.

The entrance road to the property is closed to vehicles, however, the site is not fenced off and is accessible to the public.

The landfill, approximately 5 acres in size, was constructed on the west side of a ridge and expanded westerly into a flat wet area. Part of the marsh was used as a disposal area during operation of the landfill. The landfill, which was filled with residential garbage, is estimated to be approximately 50 ft deep. Surface topography is irregular with garbage (metal, tires, trash) protruding through the cover material. Cover material was obtained from a soil mining operation in the Town of Dover and transported to the site by truck.

The nearest residence to the site is located about 900 ft to the southwest near the access road. The nearest commercial building is an office building for a peat mining operation located approximately 1,500 ft west of the landfill.

The landfill is partially surrounded by marsh land to the west. A permanent stream, Swamp River, runs north through the marsh and is located approximately 1,500 ft northeast of the landfill (by way of apparent drainage).

4.3 SITE HYDROGEOLOGY

The site is directly underlain by Carlisle Muck over glacial outwash sand and gravel (85 percent of base area) and fine sandy loam/glacial outwash (15 percent of base area along the eastern ridge) with a reported depth to ground water of about 4 ft below ground surface, based on 1976 soil borings (Appendixes Al.1-2 and Al.3-1). The 15 percent of landfill area along the ridge is likely to be underlain by areas of shallow bedrock (less than 5 ft deep) as evidenced from test pits (Appendix Al.1-2) across the rise adjacent to the eastern border of the landfill, and topographic features evident in Figure 1-2.

The glacial sediments are underlain by the Cambro-Ordovician Age Stockbridge Formation (marble bedrock) which is present in a relatively narrow area oriented approximately north-south. There are numerous areas in the valley where bedrock is reportedly at or within 3 ft of ground surface, such as the ridge adjacent to, and east of the landfill site. These areas of shallow bedrock are reportedly covered by a thin veneer (<3 ft) of glacial till. Approximately 2,000 ft east of the site is a major thrust fault which is oriented along the length of this formation.

Based upon the available data, both the glacial sediment and the bedrock are designated as the aquifer of concern. Hydraulic connection between the two

general aquifers cannot be confirmed, however, such connection is possible, especially with the bedrock ridge present immediately east of the landfill. The glacial sediment portion of the aquifer of concern consists of the sand and gravel deposits which are contiguous with the landfill property and bounded by adjacent glacial till covered hills as shown on Appendix Al.3-1 (Gerber 1982). The marble bedrock portion of the aquifer of concern, designated by Gerber (1982) as Aquifer No. 76, is bounded on the west by schist and phyllite of the Walloomsac and Everett Formations, and bounded on the east by a thrust fault located about 2,000 ft from the site as shown on Appendix Al.3-2 (Gerber 1982).

There are no reported public water supply wells constructed in the glacial sediments, however, there may be unreported private domestic wells. Although the Stockbridge bedrock portion of the aquifer has been developed by numerous reported wells, most of them are located east of the thrust fault. The landfill site is located west of the thrust fault. Surface runoff from the site flows into an adjacent wetland and then into the Swamp River which flows north through that area. The Swamp River provides water supply for the Harlem Valley Psychiatric Center. However, the Center's intake is located about 0.75 mi upstream of the Dover landfill. No downstream intakes are known to exist.

The data in this section is based upon the following references unless otherwise noted:

 Gerber, R.G. 1982. Final Report, Water Resources Study for Dutchess County: Dover Plains and Pawling Quads with Surficial and Bedrock Aquifer Delineations.

- 2. Simmons, E.T. et al. 1961. Ground-Water Resources of Dutchess County
 New York: Well Logs.
- 3. New York State Department of Health. 1982. New York State Atlas of Community Water System Sources.

4.4 SITE CONTAMINATION

Waste Types and Ouantities

Landfill received residential and commercial wastes. In 1982, the landfill evidently received a shipment of waste from a hospital. Nothing was detected by a radiological search by the Dutchess County Department of Health.

Ground Water

No data available.

Surface Water

No data available.

Sail

No data available.

Air

During EA's site inspection on 16 January 1985, total volatile organics were measured using a photoionization detection device (HNU). No measurements above background were recorded. No other analytical data are available (Chapter 3).

DOVER LANDFILL TOWN OF DOVER, DUTCHESS COUNTY

The Dover Landfill, an inactive sanitary landfill covering an area of approximately 5 acres, is located off of Pleasant Ridge Road, Town of Dover, Dutchess County, New York on private property owned by Leo and Helen Mostachetti. Operation of the landfill begain in 1943-1945, receiving residential waste from the Village of Wingdale. Later, the site was leased and operated by the Town of Dover for disposal of residential and commercial solid waste.

The landfill forms a ridge which is partially surrounded by a low marsh area. The soils underlying the site are glacial outwash sand and gravel deposits and Carlisle Muck. The Swamp River runs through the marsh approximately 1,500 ft northeast of the landfill.

The landfill was cited for many operating violations including inadequate or lack of daily cover and compaction, open burning, and disposal of waste in an unapproved area in the marsh. Legal action was taken by the DCDOH in 1972 to bring the landfill into compliance with State Health Laws and Sanitary Codes.

The Dover Landfill was not permitted to receive industrial wastes, however, it was suspected that waste from a hospital was received in 1982. A radiological search conducted by DCDOH resulted in no findings. There is no other documented evidence of hazardous waste disposal at the site, and no data is available to evaluate the status of potential contaminant transport routes.

Latitude: 41° 39' 00" Longitude: 73° 34' 00"

DOVER LANDFILL

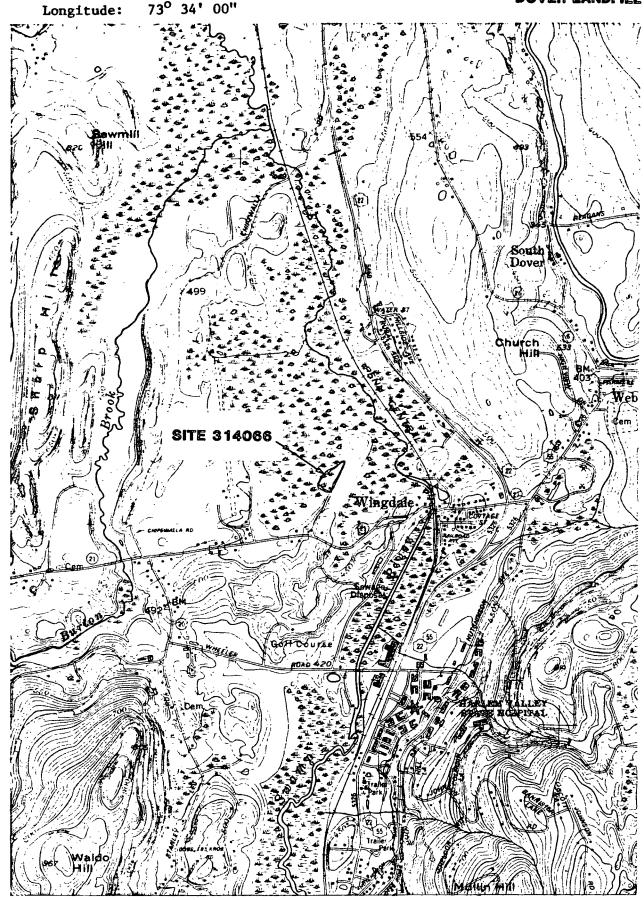


Figure 1-1. Locator map (Base map: NYSDOT. 1977 edition. 7.5-Minute Series Topographic. Scale 1:24,000).

| Facility name: | Dover Landfill | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|
| Location. | Pleasant Ridge Road (County Rd. 21), Wingdale, NY 12594 | | | | | | | | |
| EPA Region: | <u> </u> | | | | | | | | |
| Person(s) in charge | e of the facility: Leo Mostachetti (owner) | | | | | | | | |
| | Mountain Road | | | | | | | | |
| | Wingdale, New York 12594 | | | | | | | | |
| Name of Reviewer | Name of Reviewer: EA Science & Technology Date: 18 July 1985 | | | | | | | | |
| General description | n of the facility: | | | | | | | | |
| (For example: lan facility; contamina | dfill, surface impoundment, pile. container; types of hazardous substances: location of the tion route of major concern; types of information needed for rating; agency action, etc.) | | | | | | | | |
| The Dover | Landfill is an inactive landfill about 5 acres in | | | | | | | | |
| size, loca | ated off Pleasant Ridge Road near the Village of | | | | | | | | |
| Wingdale, | NY. The site received residential and commercial | | | | | | | | |
| wastes fro | om the 1940s to 1983. There is no documentation of | | | | | | | | |
| hazardous | waste disposal. No data are available to evaluate | | | | | | | | |
| the status | s of potential contaminant transport routes. | | | | | | | | |
| | | | | | | | | | |
| Sonore: S = | $(S_{gw} = 0 S_{sw} = 0 S_a = 0)$ | | | | | | | | |
| S _{FE} = 1 | <u> </u> | | | | | | | | |
| S _{DC} = 0 | Maniform G = 07 53 | | | | | | | | |

FIGURE 1 HRS COVER SHEET

| | Ground Water Route Work Sheet | | | | | | | | | | | | |
|------------|---|--|---------------------------------------|-----------------|---------------|-------------------|---------|--|--|--|--|--|--|
| | Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max. Score | Ref. (Section) | | | | | | | |
| 1 | Observed Release | (6) 45 | 1 | 0 | 45 | 3.1 | 45 | | | | | | |
| | If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2. | | | | | | | | | | | | |
| 2 | Route Characteristic | - (3) | 2 | 6 | 6 | 3.2 | | | | | | | |
| | Concern Net Precipitation Permeability of th | | 1 1 | 2 2 | 3 3 | | | | | | | | |
| | Unsaturated Zon Physical State | (i) 1 2 3 | 1 | 0 | 3 | | | | | | | | |
| | | Total Route Characteristics Score | | 10 | 15 | | | | | | | | |
| 3 | Containment | 0 1 2 3 | 1 | 3 | 3 | 3.3 | | | | | | | |
| 4 | Waste Characteristi Toxicity/Persiste Hazardous Waste Quantity | nce (0) 3 6 9 12 15 18 | 1 8 1 | 0 | 18 8 | 3.4 | 18 1 | | | | | | |
| | ſ | Total Waste Characteristics Score | • • • • • • • • • • • • • • • • • • • | . 0 | 26 | | 19 | | | | | | |
| 5 | Targets Ground Water Us Distance to Near Well/Population Served | est 0 4 6 8 10 | 3 | 9 2 0 | 9 40 | 3.5 | · | | | | | | |
| | | Total Targets Score | | 29 | 49 | | 29 | | | | | | |
| <u>[</u> 6 | If line 1 is 45, If line 1 is 0, m | multiply 1 x 4 x 5 nultiply 2 x 3 x 4 x 5 | | 0 | 57,330 | | 24,795 | | | | | | |
| 7 | Divide line 6 b | y 57,330 and multiply by 100 | S _{gw} = | 0 | | | 43.2 | | | | | | |

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Max.

| Surface Water Route Work Sheet | | | | | | | | | | | | |
|---|--|------------------------|-----------------------------|-------------------|---------------|-------------------|---------|--------|--|--|--|--|
| Rating Factor | | Assigne (Circle | Multi- plier | Score | Max. Score | Ref. (Section) | | | | | | |
| 1 Observed Re | ease | © | 45 | 1 | 0 | 45 | 4.1 | 45 | | | | |
| If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2. | | | | | | | | | | | | |
| | teristics be and Interv | ening 0 1 2 | 3 | 1 | 3 2 | 3 | 4.2 | | | | | |
| Terrain 1-yr, 24-hr. Distance to Water | Rainfall Nearest Sur | 0 1 ② face 0 1 ② | 3 | 1 2 | 4 | 3 6 | | | | | | |
| Physical Str | ite | (1) 1 2 | 3 | 1 | 0 | 3 | <u></u> | | | | | |
| | | Total Route Cha | racteristics Sc | ore | 9 | 15 | | | | | | |
| 3 Containment | ······································ | 0 1 2 | 3 | 1 | 3 | 3 | 4.3 | | | | | |
| Waste Charac Toxicity/Pe Hazardous Quantity | rsistence | 9 12 15 18 3 4 5 6 | 1 7 8 1 | 0 | 18 8 | 4.4 | 18 1 | | | | | |
| | | Total Waste Cha | racteristics So | ore | 0 | 26 | | 19 | | | | |
| 5 Targets Surface Wa | ter Use a Sensitive | 0 1 0 1 | 2 (3) 2 (3) | 3 2 | 9 | 9 6 | 4.5 | | | | | |
| Environme | int Served/Dista ntake | 3 12 16 | 6 8 10 18 20 32 35 40 | 1 | 0 | 40 | | | | | | |
| | | Total Tar | gets Score | | 15 | 55 | | 15 | | | | |
| 6 If line 1 is | s 45, multiply s 0, multiply | 1 x 4 x 5 2 x 3 x 4 | x 5 | | 0 | 64.350 | | 12,825 | | | | |
| 7 Divide line [| 6 by 64,350 | and multiply by | 100 | S _{sw} = | 0 | | | 19.93 | | | | |

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

| | Air Route Work Sheet | | | | | | | | | | | |
|---|--|-------------------|--------------------------------|----------------------|------|---------|-------|------|--------|---------------------|--------------|------------------|
| | Rating Factor | | Assigned Value (Circle One) | | | | | | | Score | Max Score | Ref. Section) |
| Image: section of the content of the | Observed Release | | 0 | | | 45 | | | 1 | 0 | 45 | 5.1 |
| | Date and Location | | | | | | | | | · /2 7 5 | | <u> </u> |
| | Sampling Protocol | : | | | | | | | | | | |
| | | | 0. Enter on | | | - | | | | | | |
| 2 | Waste Characteris Reactivity and | tics | 0 | 1 2 | 3 | | | | 1 | | 3 | 5.2 |
| | Incompatibility Toxicity Hazardous Waste Quantity | | | 1 2 1 2 | | 4 5 | 6 | 7 8 | 3 1 | | 9 8 | |
| | | | , | | | | | | | | | |
| | | | Total Was | e Chi | arac | teristi | cs Sc | core | | | 20 | |
| 3 | Targets Population Within 4-Mile Radius Distance to Sens | | 1 21 2 | 9 12 24 27 1 2 | 30 | 18 | | | 1 2 | | 3 0 | 5.3 |
| | Environment Land Use | | 0 | 1 2 | 3 | | | | 1 | | 3 | |
| | | | | | | | | | | | | |
| | | | Tot | ai Tai | get | s Sco | re | | | | 39 | |
| 4 | 4 Multiply 1 x 2 x 3 | | | | | | | | 35,100 | | | |
| 5 | Divide line 4 b | y 35,1 0 0 | and multip | y by | 100 | | | | Sa= | 0 | | |

FIGURE 9
AIR ROUTE WORK SHEET

| | s | s² |
|---|---|----|
| Groundwater Route Score (Sgw) | 0 | 0 |
| Surface Water Route Score (S _{SW}) | 0 | 0 |
| Air Route Score (Sa) | 0 | 0 |
| $s_{gw}^2 + s_{sw}^2 + s_a^2$ | | 0 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$ | | 0 |
| $\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$ | | 0 |

FIGURE 10 WORKSHEET FOR COMPUTING S_M

Maximum $S_{M} = 27.53$

| | Fire a | nd | Exp | los | ion | Wo | k Shee | t | | | |
|---|--------------|---------|---------|------------------|-----------------|-------|---------------|---------------------------------------|-----|-----------------------|-----|
| | | | | | Multi- plier | Score | Max. Score | Ref. (Section) | | | |
| 1 Containment | 1 3 1 | | | | | | | 1 | | 3 | 7.1 |
| Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity | | 1 | 2 2 2 2 | 3 3 | 4 | 5 | 6 7 | 1 1 1 1 8 1 | | 3 3 3 8 | 7.2 |
| | Total Was | te | Cha | rac | teri | stics | Score | · · · · · · · · · · · · · · · · · · · | | 20 | |
| Distance to Nearest Population Distance to Nearest Building Distance to Sensitive Environment Land Use Population Within 2-Mile Radius Buildings Within 2-Mile Radius | 0 0 0 | 1 1 1 1 | 2 2 2 | 3 3 3 3 | 4 | 5 | | 1 1 1 1 1 | - | 5 3 3 5 5 | 7.3 |
| 4 Multiply 1 x 2 x [| | tal | Tar | get | s S | core | | | | 1,440 | |
| 5 Divide line 4 by 1,440 | and multiply | y b | y 1 | 00 | | | | SFE = | N/A | | |

·.

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

| | Direct Contact Work Sheet | | | | | | | | | |
|---|--|--------------------------------|-----------------|-------|--------------|-------------------|--|--|--|--|
| | Rating Factor | Assigned Value (Circle One) | Multi- plier | Score | Max Score | Ref. (Section) | | | | |
| 1 | Observed Incident | (6) 45 | 1 | 0 | 45 | 8.1 | | | | |
| | If line 1 is 45, proceed If line 1 is 0, proceed t | | | | | | | | | |
| 2 | Accessibility | 0 1 2 ③ | 1 | 3 | 3 | 8.2 | | | | |
| 3 | Containment | 0 🚯 | 1 | 15 | 15 | 8.3 | | | | |
| 4 | Waste Characteristics Toxicity | () 1 2 3 | 5 | 0 | 15 | 8.4 | | | | |
| 3 | Targets Population Within a 1-Mile Radius | 0 1 ② 3 4 5 | 4 | 8 | 20 | 8.5 | | | | |
| | Distance to a Critical Habitat | (3) 1 2 3 | 4 | 0 | 12 | | | | | |
| 6 | If line 1 is 45, multiply | Total Targets Score | | -8 | 32 | | | | | |
| | If line 1 is 0, multiply | 2 x 3 x 4 x 5 | | 0 | 21,600 | | | | | |
| 7 | Divide line 6 by 21,600 | and multiply by 100 | SDC - | 0 | | | | | | |

FIGURE 12 DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible, summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

| FACILITY | NAME: | Dove | r Landf | <u>ill</u> | | | | | | ·· | | _ |
|----------|--------------|--------|---------|------------|--------|---------|------|--------|-------------|---------|--------|---|
| LOCATION | : <u>_Pl</u> | easant | Ridge R | oad (Co | unty_R | oad 21) | Town | of Dov | exI | Outches | sa Co. | _ |

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No data. Assigned value = 0.

Rationale for attributing the contaminants to the facility:

Not applicable.

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Both the glacial sediment and the bedrock are designated as the aquifer of concern. The glacial sediment aquifer consists of sand and gravel deposits contiguous with the landfill property. The marble bedrock aquifer is designated by Gerber (1982) as Aquifer No. 76 (Appendixes Al.3-1 and Al.3-2).

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table[s]) of the aquifer of concern:

The depth is estimated at about 56 ft below the top of the fill. The depth of the landfill is not known but was estimated to be at least 50 ft by Leo Mostachetti (Appendix Al.1-1).

Depth from the ground surface to the lowest point of waste disposal/storage:

Based on 1976 soil borings referred to in an engineer's report (Appendix Al.1-2) ground water was estimated to be 6 ft below the original elevation of land used for the landfill.

Assigned value = 3.

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

40 inches.

Reference: Dethier, B.E. 1966. Mean annual precipitation, in inches, 1931-1964, in Precipitation in New York State. Cornell Univ. Agr. Expt. Sta. Bull. 1009. Ithaca, New York.

Mean annual lake or seasonal evaporation (list months for seasonal):

28 inches.

Reference: U.S. EPA. 1984. Uncontrolled Hazardous Waste Site Ranking
System. A Users Manual (HW-10). Originally published in the
July 16, 1982, <u>Federal Register</u>.

Net precipitation (subtract the above figures):

12 inches. Assigned value = 2.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Dover fine, sandy loam derived from glacial till.

References: U.S. Department of Agriculture. 1955. Soil Survey
Dutchess County. (Appendix Al.5-1.)
Gerber, R.G. 1982. Final Report, Water Resources Study
for Dutchess County. (Appendix Al.3-1.)

Permeability associated with soil type:

Moderately permeable, estimated range 10^{-3} - 10^{-5} cm/sec. Assigned value = 2.

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Unknown. Assigned value = 0.

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill: No liner provided, no leachate collection system, landfill surface does not preclude ponding, landfill surface precludes run-on.

Reference: EA Site Inspection, 16 January 1985.

Method with highest score:

No liner provided and landfill surface does not preclude ponding. Assigned value = 3.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

No data available. Assigned value = 0.

Reference: Section 4.4.

Compound with highest score:

Not applicable.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown. Assigned value = 0.

Basis of estimating and/or computing waste quantity:

Not applicable.

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Ground water in aquifer of concern is used for drinking water source. Assigned value = 3.

Reference: New York State Department of Health. 1982. New York State
Atlas of Community Water System Sources. (Appendix Al.5-2.)

Distance to Nearest Well

Location of nearest well drawing from <u>aquifer of concern</u> or occupied building not served by a public water supply:

The nearest building is a residence located approximately 500 ft southeast of the landfill. (EA Site Inspection, 16 January 1985.)

Distance to above well or building:

900 ft. Assigned value = 4.

Reference: NYSDOT. 1973. 7.5-Minute Series Topographic: Dover Plains Quad.

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from <u>aquifer(s)</u> of <u>concern</u> within a 3-mile radius and populations served by each:

Aquifer of concern is the carbonate bedrock and the overlying sand and gravel deposits that are contiguous with the site, bounded by phyllites/schist on the east and west. (Appendixes Al.3-1 and Al.3-2.)

Community Water Supplies:

Schreiber Water Works

110

Reference: New York Department of Health. 1982. New York State Atlas of Community Water System Sources. (Appendix Al.5-2.)

Homes with private wells in aquifer of concern:

173 x 3.8 657

Total 767

Reference: NYSDOT. 1973. 7.5-Minute Series Topographic: Dover Plains and Pawling Quads.

Computation of land area irrigated by supply well(s) drawing from <u>aquifer(s) of concern</u> within a 3-mile radius, and conversion to population (1.5 people per acre):

Information requested on 7 March 1986 was not available as of 8 October 1986.

Reference: Dibble, R. 1986. Dutchess County SWCD. Personal Communication.

Total population served by ground water within a 3-mile radius:

767. Assigned value = 2. Combined score = 20.

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No data available. Assigned value = 0.

Rationale for attributing the contaminants to the facility:

Not applicable.

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Approximately 30 percent. (EA Site Inspection, 16 January 1985.)

Name/description of nearest downslope surface water:

Swamp River: a permanent surface water which runs through a marsh area adjacent and north of the site.

Reference: NYSDOT. 7.5-Minute Series Topographic: Dover Plains Quad.

Average slope of terrain between facility and above-cited surface water body in percent:

<3 percent.

Reference: EA Site Inspection, 16 January 1985.

Is the facility located either totally or partially in surface water?

Yes. The landfill is bounded on the west by a marsh. A portion of the marsh area was filled with residential trash. (EA Site Inspection, 16 January 1985.)

Assigned value = 3.

Is the facility completely surrounded by areas of higher elevation?

No. The landfill forms a ridge rising approximately 50 ft above the surface of the surrounding marsh. (EA Site Inspection, 16 January 1985.)

1-Year. 24-Hour Rainfall in Inches

2.5 inches. Assigned value = 2.

Reference: U.S. EPA. 1984. Uncontrolled Hazardous Waste Site Ranking
System. A Users Manual (HW-10). Originally published in the
July 16, 1982, <u>Federal Register</u>.

Distance to Nearest Downslope Surface Water

The Swamp River is approximately 1,500 ft downgradient of the site.

Reference: NYSDOT. 1973. 7.5-Minute Series Topographic: Dover Plains Quad.

Assigned value = 2.

Physical State of Waste

Unknown. Assigned value = 0.

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill: cover material is not adequate, landfill slope does not preclude runoff, no diversion system present. (EA Site Inspection, 16 January 1985.)

Method with highest score:

No diversion system present. Assigned value = 3.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

No data available. Assigned value = 0.

Reference: Section 4.4.

Compound with highest score:

Not applicable.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown. Assigned value = 0.

Basis of estimating and/or computing waste quantity:

Not applicable.

**

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreational. Assigned value = 2.

References: NYSDOH. 1982. New York State Atlas of Community Water System

Sources. (Appendix Al.5-2.)

Elliot, W. 1986. NYSDEC Region 3, Regional Fisheries Manager.

Personal Communication. 29 August. (Appendix Al.5-3.)

Is there tidal influence?

No.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None. Assigned value = 0.

Reference: NYSDOT. 1973. 7.5-Minute Series Topographic: Dover Plains Quad.

Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

Landfill is bordered by a freshwater wetland. Assigned value = 3.

Reference: NYSDOT. 1973. 7.5-Minute Series Topographic: Dover Plains Quad.

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

None. Assigned value = 0.

Reference: Significant Habitat Unit. 1985. Significant Habitat Overlays.

Division of Fish and Wildlife, New York State Department of

Environmental Conservation, Delmar, New York.

Population Served by Surface Water

Location(s) of water supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static waterbodies) downstream of the hazardous substance and population served by each intake:

The Harlem Valley Psychiatric water intake is located about 0.75 mi upstream of the landfill and it is not anticipated that the landfill would have any adverse effect on their surface water supply.

Assigned value = 0.

Reference: NYSDOH. 1982. New York State Atlas of Community Water System Sources. (Appendix Al.5-2.)

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre).

Information requested 7 March 1986 was unavailable as of 8 October 1986.

Reference: Dibble, R. 1986. Dutchess County SWCD. Personal Communication.

Total population served:

Assigned value = 0.

Name/description of nearest of above waterbodies:

Not applicable.

Distance to above-cited intakes, measured in stream miles.

Not applicable.

AIR ROUTE

| T ORDERATED VEHICUSE | 1 | Œ | SERVED | RELEASI | 3 |
|----------------------|---|---|--------|---------|---|
|----------------------|---|---|--------|---------|---|

Contaminants detected:

During EA's site inspection (16 January 1985), total volatile organics were measured using a photoionization detection device. No readings above background were recorded. No other data are available (Chapter 3). Assigned value = 0.

Date and location of detection of contaminants:

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

ååå

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity Most toxic compound: Hazardous Waste Quantity Total quantity of hazardous waste: Basis of estimating and/or computing waste quantity: 3 TARGETS Population Within 4-Mile Radius Circle radius used, give population, and indicate how determined: 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi 0 to 4 mi Distance to a Sensitive Environment Distance to 5-acre (minimum) coastal wetland, if 2 miles or less: Distance to 5-acre (minimum) freshwater wetland, if 1 mile or less:

Land Use

Distance to commercial/industrial area, if I mile or less:

Distance to critical habitat of an endangered species, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve if 2 miles or less:

Distance to residential area, if 2 miles or less:

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

None reported. (Chapter 3.)

Assigned value = 0.

2 ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the site (EA Site Inspection, 16 January 1985.)

Assigned value = 3.

3 CONTAINMENT

Type of containment, if applicable:

Site is a landfill, cover material is not adequate (EA Site Inspection, 16 January 1985).

Assigned value = 15.

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

No data available. Reference: Section 4.4.

Compound with highest score:

Assigned value = 0.

5 TARGETS

Population Within 1-Mile Radius

680. Residences in a 1-mi radius counted from the topographic map (150 \times 3.8 persons = 570) plus the populaton served by Schreiber Water Works (110).

References: NYSDOH. 1982. New York State Atlas of Community Water System
Sources. (Appendix Al.5-2.)

NYSDOT. 1973. 7.5-Minute Series Topographic: Dover Plains Quad.

Assigned value = 2.

Distance to Critical Habitat (of Endangered Species)

None. Assigned value = 0.

Reference: Significant Habitat Unit. 1985. Significant Habitat Overlays.

Division of Fish and Wildlife, New York State Department of
Environmental Conservation, Delmar, New York.



Potential Hazardous Waste Site

Preliminary Assessment

& EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

| I. IDENT | TFICATION |
|----------|------------------------------|
| 01 STATE | 02 BITE NUMBER |
| NY | 02 BITE NUMBER D980508139 |

| PART | - SITE INFORMA | TION AF | d assessi | ENT | 14.1 | D900700 | 139 |
|---|--|---|--|-------------------------|----------------------|------------------|-------------------|
| II. SITE NAME AND LOCATION | | | | | | - | |
| O1 SITE NAME (Loop), common or descriptive name of site, | | 02 STREE | T ROUTE NO. O | R SPECIFIC LOCATION | ON IDENTIFIER | | |
| Dover Landfill | | Pleasant Ridge Road (County Road 21) | | | | | |
| οз απν Dover | | 04 STATE NY | 05 ZIP CODE 12594 | Dutch | ess | 07 COUNT CODE | Y 08 CONG DIST |
| 08 COORDINATES LATITUDE LO | VGITUDE 30 0' | | <u> </u> | | | | <u></u> |
| From Poughkeepsie, NY, take S Ridge Road east approximately | | | | | | | |
| about 1/2 mile west of Village III. RESPONSIBLE PARTIES | e of Wingdal | е | | · | | | |
| C1 OWNER (Manown) Leo Mostachetti | | | T <i>iBusness.meling.</i> ntain Ros | | | | |
| οι στη Wingdale | | 04 STATE NY | 05 ZIP CODE 12594 | 06 TELEPHON (914) 83 | | | |
| 07 OPERATOR (It known and different from owner) Town of Dover | | | T/Business.melling asant Ric | | | | |
| Village of Wingdale | | NY NY | 12594 | 12 TELEPHON (914) 83 | | | - |
| 13 TYPE OF OWNERSHIP (Crock one) A. PRIVATE B. FEDERAL: F. OTHER. | (Agency name) | | _ DC.STAT | | Y DE.M | JNICIPAL | |
| (Speci 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all their spory | y. | | | | | | |
| E. A. RCRA 3001 DATE RECEIVED: | ☐ B UNCONTROLLE | ED WAST | E SITE ICERCLA 10 | osc) DATE RECEI | VED. | | NONE |
| IV. CHARACTERIZATION OF POTENTIAL HAZARD | | | · | | MONTH I | DAT TEAN | |
| X YES DATE 1/16/85 CA. NO MONTH DAY YEAR DE. | DEP AP MAI ADDIY. EPA I B. EPA LOCAL HEALTH OFFICE TRACTOR NAME(S): | CIAL E | F. OTHER | c.state | | CONTRACTOR | |
| D2 SITE STATUS (Check one | 03 YEARS OF OPFRA | ION 13-19 ¹ Ginning ye | | 33 GYEAR | □ UNKNOW | N . | • |
| O4 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT. KNOWN It is not known if any hazardo | | es wer | e dispos | ed of at | the land | lfill. | |
| OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND The site has not been properly cover was inadequate. The pot water exists. | closed. Co | | | | | | ace |
| V. PRIORITY ASSESSMENT | | | | | | | |
| O1 PRIORITY FOR INSPECTION (Check one. If high or medium is checked A. HIGH [Inspection required promptly] [Inspection required] | complete Part 2 - Waste Inform C. LOW (Inspect on time a | | D. NON | | | sition formi | |
| VI. INFORMATION AVAILABLE FROM | | | | | | | |
| D1 CONTACT | 02 OF (Agency/Organizat | tion) | | | | 03 TELEPHONE | NUMBER |
| Ray Kapp | EA Science | e and | Technol | ogy | | (914) 692 | -6706 |
| 04 PERSON RESPONSIBLE FOR ASSESSMENT Linda K. McConnell | D5 AGENCY | 06 ORGA | NIZATION EA | 07 TELEPHO | NE NUMBER 71-4950 | 08 DATE 7 ,18 | |
| | | | | 1 3 - 1 | | MONTH DAY | YEAR |

&EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

| | TEICATION |
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| OI STATE | 02 SITE NUMBER |
| NY | D980508139 |

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| | TATES, QUANTITIES, AN | 02 WASTE QUANTI | | T 03 WASTE CHARACTI | ERISTICS (Check at that or | ΦΦ ¹ γ1 | *************************************** |
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| III WARTET | | | | 1 | | | |
| III. WASTE T | SUBSTANCE N | ANAE | 01 GROSS AMOUNT | 02 UNIT OF MEASURE | 03 COMMENTS | · | |
| CATEGORY SLU | SLUDGE | AME | UT GROSS AMOUNT | OZ DIGIT OF INE NOCILE | U3 COMMENTS | | |
| OLW | OILY WASTE | | | | | | |
| | SOLVENTS | | | | | | |
| SOL | | | | | | | |
| PSD | PESTICIDES | FARCAL C | | | | | |
| 000 | OTHER ORGANIC CHEMIC | | | | | | - |
| ACD ACD | INORGANIC CHEMIC. | ALS | | - | | | |
| BAS | BASES | | | | <u> </u> | | |
| MES | HEAVY METALS | | | | | | |
| | OUS SUBSTANCES (See AF | for most fraction | ener CAS Numbers | i | <u> </u> | | |
| 01 CATEGORY | 02 SUBSTANCE N | | 03 CAS NUMBER | 04 STORAGE DISP | POSAL METHOD | 05 CONCENTRATION | OF MEASURE OF CONCENTRATION |
| UT CATEGOT. | 02 0000 | | 1 | | | | CONCENTION |
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| | CKS 'See Appendix to: CAS Numbe | 2,00 1155 | olicable | | 24 5550056 | | |
| CATEGORY | 0: FEEDSTOC | < NAME | 02 CAS NUMBER | CATEGORY | 01 FEEDSTO | OCK NAME | 02 CAS NUMBER |
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| FDS | | | | FDS | | | |
| FDS | | | | FDS | | | |
| VI. SOURCES | S OF INFORMATION (CRE | ipecific references e.g., | state files sample analysis, r | reports (| · · · · · · · · · · · · · · · · · · · | | |
| | York State Der chess County De | • | | | vation files | S. | |

Dover Landfill



Potential Hazardous Waste Site

Site Inspection Report

& EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT 1 - SITE I OCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

NY D980508139

| | PART 1 - SIT | E LOCATION AND | | | ATION | NY | D9805081 | L39 |
|-------------------------------------|---------------------------------------|------------------------|------------|----------------------|--------------------|------------------------|-------------------------------|--------------|
| II. SITE NAME AND LO | | | | | | | | |
| D1 SITE NAME (Loga: commor (| | | D2 STRE | ET. ROUTE NO., OR SI | PECIFIC LOCATION I | DENTIFIER | | |
| Dover Landf | רוי | | Þ. | easant Rid | ge Road | | | |
| OS CHYTOWN of Dov | rer | | 04 STAT | easant Rid | 06 COUNTY | | | Y DB CONG |
| Village of | | | NY | 12594 | Dutches | ss | CODE | DIST |
| D9 COORDINATES | | 10 TYPE OF OWNERSH | P IChoca o | ne | | | | 4 |
| _41°_39°_00.0" | 730 _ 34 _00 .0" | F. OTHER _ | LJ B. FE | DERAL | | D. COUNTY 3. UNKNOY | | 'AL |
| III. INSPECTION INFOR | | | | - | | - | | |
| 1,16, 85 | 02 SITE STATUS | 03 YEARS OF OPERAT | 43-4 | 1983 | | | | |
| MONTH DAY YEAR | AL: INACTIVE | | NNING YE | | | INKNOWN | | |
| 04 AGENCY PERFORMING INS | | | | | | | | |
| □ A.EPA □ B.EPA C | CONTRACTOR EA Scien | rce''& Tech. | | UNICIPAL 🗀 D. M | UNICIPAL CONTR | ACTOR | (Name of fam) | |
| LI E. STATE IX F. STATI | E CONTRACTOR | | □ G. O | THER | (Specily | | | |
| 05 CHIEF INSPECTOR | | 06 TITLE | , | | 07 ORGANIZA | TION | 08 TELEPHONE | - |
| Linda K. McCon | mell | Environm | enta] | Engineer | EA | | 801) 771 | 4950 |
| 09 OTHER INSPECTORS | | 10 TITLE | | | 11 ORGANIZAT | ION | 12 TELEPHONE | |
| Gloria McClear | У | Environm | enta] | Engineer | EA | | (301) 771 | 4950 |
| Richard Rennia | | 0- | | | Town of | | 10-1.0 | 2770 |
| Richard Kemira | | Council | Membe | r | Board S | Supvis. | 9141011 | -3/10 |
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| | | | | | | | () | |
| 13 SITE REPRESENTATIVES IN | TERVIEWED | 14 TITLE | T | 5ADDRESS | _ | | 16 TELEPHONE | NO |
| Leo Mostachett | i | Landowne | r | Wingdale, N | VY 12594 | | 914,832 | -6146 |
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| 17 ACCESS GAINED BY (Check one) | 18 TIME OF INSPECTION | 19 WEATHER CONDIT | | | • | | | |
| Ø PERMISSION ☐ WARRANT | 0930 hours | Cold, 8 | F, | Clear, Wind | У | · | | |
| IV. INFORMATION AVAIL | LABLE FROM | 02 OF (Agency Organiza | ton n i | | | 12 | O TELEPOOR | |
| | | | | | | | 03 TELEPHONE NO (914) 692- | |
| Ray Kapp 04 PERSON RESPONSIBLE FOR | D OTTE INCORPOTION FORM | EA Scienc | | d Technolog | * | | | 5100 |
| Linda K. McConn | | US AGENCY | | MIZATION | 07 TELEPHONE N | | DE DATE | 0.5 |
| Linda III MCCOIII | · · · · · · · · · · · · · · · · · · · | | EA | | (301)771-1 | +950 | 7 /18 / | YEAR |

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POTENTIAL HAZARDOUS WASTE SITE

| I. IDENT | TIFICATION |
|----------|------------|
| DI STATE | DOBOSOBER |

| | | | | TION REPORT EINFORMATION | NY D98 | NY D980508139 | |
|--------------|--|--------------------------|---|--|--|---|--------------------------------|
| II WASTES | TATES, QUANTITIES, AF | ND CHARACTER | | | · | | |
| | TATES (Check at the 6001): LE SLURRY R. FINES LE FLUQUID E LG GAS | 02 WASTE QUANTI | TY AT SITE outsite quantities independent UNKNOWN | © A TOXIC © B CORRO © C RADIOA © D PERSIS | L E SOLUT SIVE E F. INFEC CTIVE E G FLAM | BLE E I HIGHLY' THOUS E J EXPLOS MABLE E K REACTI | SIVE IVE PATIBLE |
| III. WASTE T | | | | <u></u> | | | |
| CATEGORY | SUBSTANCE N | IAME | D1 GROSS AMOUNT | 02 UNIT OF MEASURE | 03 COMMENTS | | |
| SLU | SLUDGE | | | | | | |
| OLW | OILY WASTE | | | | | | |
| SOL | SOLVENTS | | | | | | |
| PSD | PESTICIDES | | | | | | |
| occ | OTHER ORGANIC CI | HEMICALS | | | | | |
| IOC | INORGANIC CHEMIC | ALS | | | | | |
| ACD | ACIDS | | | | | | |
| BAS | BASES | | | | | | · - |
| MES | HEAVY METALS | | L | <u> </u> | | | |
| | OUS SUBSTANCES (See A | | · · · · · · · · · · · · · · · · · · · | nknown | | | O6 MEASURE OF |
| 01 CATEGORY | 02 SUBSTANCE N | AME | 03 CAS NUMBER | 04 STORAGE/DISF | POSAL METHOD | 05 CONCENTRATION | 06 MEASURE OF CONCENTRATION |
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| V. FEEDSTO | CKS (See Appendix to: CAS Numb | ers' Not An | plicable | ł | | · | |
| CATEGORY | O1 FEEDSTOO | NOU A | 02 CAS NUMBER | CATEGORY | O1 FEEDSTO | OCK NAME | 02 CAS NUMBER |
| FDS | | | | FDS | | | |
| FDS | | | | FDS | | | |
| FDS | - | | | FDS | | | |
| FDS | 1 | | | FDS | | | |
| VI. SOURCES | S OF INFORMATION (Cre | specific references e.g. | state files: sample analysis: | reports | | | |
| | ess County Depa ork State Depar | | | | ion files | | |

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| I. IDENTIFICATION | | | | |
|-------------------|----------------|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | |
| NY | D980508139 | | | |

| | | CIDENTS | | |
|--|---|-------------------------------|------------------------------------|-----------------------------------|
| II. HAZARDOUS CONDITIONS AND INCIDENTS | | | | |
| 01 L A GROUNDWATER CONTAMINATION 767 | 02 C OBSERVED (DATE: | | POTENTIAL | E ALLEGED |
| The glacial sediment and bedrock | | | | |
| glacial sediment aquifer consists | | | | |
| Cambro-Ordovician Age Stockbridge | | signate | d as Aqui | fer No. 76 by |
| Gerber (1982). Refer to Section | | | | |
| 01 TI B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED. Zero | 02 C OBSERVED (DATE |) £ | POTENTIAL | □ ALLEGED |
| A permanent stream, Swamp River, | | Peet nor | theast o | f the |
| landfill and runs through the wet | land adjacent to the sit | ie. | . OIICGD 0 | 1 one |
| Refer to Sections 4.2 and 4.3. | 2000 | , | | |
| 01 C. CONTAMINATION OF AIR | 02 COBSERVED (DATE | _) = | POTENTIAL | □ ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED | 04 NARRATIVE DESCRIPTION | | | |
| | | | | |
| Unknown. | | | | |
| | | | | |
| 01 D. FIRE/EXPLOSIVE CONDITIONS | 02 OBSERVED (DATE | , , | POTENTIAL | FALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED. | 04 NARRATIVE DESCRIPTION | <u></u> 1 | POTENTIAL | □ ALLEGED |
| | | | | |
| Unknown. | | | | |
| | | | | |
| - V - 50507 00 700 | | | | 4 |
| 01 & E DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED | 02 COBSERVED (DATE: | | POTENTIAL | □ ALLEGED |
| The site is easily accessible to t | the public and is not fe | nced of | f. A bai | rrier is |
| present on the entrance road restr | ricting access to vehicl | es. Sc | rap metal | L and |
| residential garbage is protruding | through the cover mater | ial. | | |
| | | | | |
| 01 D F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED. 5 | 02 TOBSERVED (DATE | _) X= | POTENTIAL | F7 4 |
| US AREA POTENTIALLY AFFECTED | 04 NARRATIVE DESCRIPTION | | | ALLEGED |
| | | | | ⊔ ALLEGED |
| 37- 3-4 | | | | L ALLEGED |
| No data available. | | | | L ALLEGED |
| No data available. | | | | L ALLEGED |
| 01 F.C. DEINGRO WATER CONTRACTOR | |) Su | POTENTIAL | |
| | 02 C OBSERVED (DATE | _) \{\f\} | POTENTIAL | □ ALLEGED |
| 01 © G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 | 02 C OBSERVED (DATE | | | □ ALLEGED |
| O1 C G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa | 02 C OBSERVED (DATE | .42 mil | es north | □ ALLEGED of the site |
| O1 E G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wain the bedrock aquifer of concern. | 02 COBSERVED (DATE | .42 mil y syste | es north m is pres | □ ALLEGED of the site sent near |
| O1 C G DRINKING WATER CONTAMINATION 767 O3 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well | O2 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | □ ALLEGED of the site sent near |
| O1 E G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wain the bedrock aquifer of concern. | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres | □ ALLEGED of the site sent near |
| O1 G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well O1 D H. WORKER EXPOSURE/INJURY | O2 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well O1 G H. WORKER EXPOSURE/INJURY O3 WORKERS POTENTIALLY AFFECTED. | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well O1 D H. WORKER EXPOSURE/INJURY | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well O1 G H. WORKER EXPOSURE/INJURY O3 WORKERS POTENTIALLY AFFECTED. | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 D G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well 01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED. Unknown. | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well O1 G H. WORKER EXPOSURE/INJURY O3 WORKERS POTENTIALLY AFFECTED | 02 COBSERVED (DATE 04 NARRATIVE DESCRIPTION ater Works, is located 0 No public water supply s are probably located : 02 COBSERVED (DATE 04 NARRATIVE DESCRIPTION | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well 01 G H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED. Unknown. O1 G I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED. | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 D G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 767 A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well 01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED. Unknown. | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |
| O1 D G. DRINKING WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: A community well, the Schreiber Wa in the bedrock aquifer of concern. the site. Unreported private well O1 D H. WORKER EXPOSURE/INJURY O3 WORKERS POTENTIALLY AFFECTED. Unknown. O1 D I. POPULATION EXPOSURE/INJURY O3 POPULATION POTENTIALLY AFFECTED. | 02 COBSERVED (DATE | .42 mil y system in the | es north m is pres aquifer c | of the site sent near of concern. |

&EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF MAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION

101 STATE 02 SITE NUMBER

NY D980508139

| PART 3 - DESCRIPTION OF NA | AZARDOUS CONDITIONS AND INCIDENT | . 5 |
|---|----------------------------------|-----------------------|
| II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued | | |
| 01 E' J DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION | 02 COBSERVED (DATE) | D POTENTIAL D ALLEGED |
| Unknown. | | |
| 01 D K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (molude name)s of species. | 02 - OBSERVED (DATE) | D POTENTIAL D ALLEGED |
| Unknown. | | |
| 01 To L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION | 02 C OBSERVED (DATE) | □ POTENTIAL □ ALLEGED |
| Unknown. | | : |
| 01 T M UNSTABLE CONTAINMENT OF WASTES | 02 TOBSERVED (DATE) | ☐ POTENTIAL ☐ ALLEGED |
| (Spits Runoti Standing legical Leaking drums 03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION | 1 |
| Unknown. | | |
| 01 T N DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION | 02 C OBSERVED (DATE:) | □ POTENTIAL □ ALLEGED |
| Unknown. | | 1 |
| | | |
| 01 _ O CONTAMINATION OF SEWERS STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION | 02 C OBSERVED (DATE:) | ☐ POTENTIAL ☐ ALLEGED |
| No sewers, storm drains, or wastew | water treatment plants are | known to be located |
| within 1 mile of the landfill. | | |
| 01 T P ILLEGAL'UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION | 02 C OBSERVED (DATE) | □ POTENTIAL □ ALLEGED |
| Unknown. | | |
| 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG | SED HAZARDS | |
| | | |
| | | |
| III. TOTAL POPULATION POTENTIALLY AFFECTED: | | |
| IV. COMMENTS | | |
| | | |
| V. SOURCES OF INFORMATION (Cite specific references, e.g. state files si | sample analysis reports, | |
| Gerber, R.G. 1982. Final Report, NY State Dept. Health. 1982. NY U.S.G.S. Topographic Map, Dover Pl | State Atlas of Community W. | Nater System Sources. |

| | 2 | | | |
|--|---|--|--|--|
|--|---|--|--|--|

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION ART 4 - PERMIT AND DESCRIPTIVE INFORMATION

| 1. | IDENT | TEICATION |
|----|-------|------------|
| 01 | STATE | 0250500139 |

| | PART 4 - PERN | AIT AND DI | ESCRIF | PTIVE INFORMAT | /ION [| MT | 1900700139 |
|---|-------------------|---------------|-------------|-----------------------------|-----------------|-------------|----------------------|
| II. PERMIT INFORMATION | | | | | | | |
| 01 TYPE OF PERMIT ISSUED (Check at their apply) | 02 PERMIT NUMBER | 03 DATE | ISSUED | 04 EXPIRATION DATE | 05 COMMENTS | | |
| C A. NPDES | | 1 | 1 | 1 | | | |
| E. B. UIC | - | + | | | - | | |
| | | + | | | | | |
| E C AIR | | | | | | | |
| D D RCRA | | + | | ' | | | |
| DE. RCRA INTERIM STATUS | | | | | | | |
| F. SPCC PLAN | 05).7 | Talenc | | 1 27 790 | D | £034 | |
| G STATE ISpecify. NY DEC | 0547 | Unkno | /WII | 3/31/82 | Permi | , 101 | operation |
| E'H LOCAL ISpecify. | | | | ' | 4 | | |
| E.1. OTHER (Specify. | | | | ' | <u> </u> | | |
| □ J NONE | | | | <u> </u> | <u> </u> | | |
| III. SITE DESCRIPTION | | | | | | | |
| 01 STORAGE/DISPOSAL (Check of that apply) | 02 AMOUNT D3 UNIT | OF MEASURE | 04 TR | REATMENT (Check all that ap | pply: | 05 OTH | (ER |
| ☐ A. SURFACE IMPOUNDMENT | | | □ A. | INCENERATION | | 1 v. | * ALM DINOC ON DITE |
| B. PILES _ | | | | UNDERGROUND INJE | | AL A | A. BUILDINGS ON SITE |
| ☐ C. DRUMS, ABOVE GROUND ☐ D. TANK, ABOVE GROUND | | | 1 | CHEMICAL/PHYSICAL | iL - | | |
| ☐ E. TANK, BELOW GROUND | | | I . | BIOLOGICAL | | 1 1 1 1 1 1 | |
| _ | unknown | | 1 | WASTE OIL PROCESS | | DE AHE | EA OF SITE |
| ☐ G. LANDFARM | WIINIURI | | | SOLVENT RECOVERY | | 1 | 5 (4000) |
| ☐ H. OPEN DUMP | | | 1 | OTHER RECYCLING/F | AECOVERY | | (Acres) |
| ☐ I. OTHER | | | 1 4. | OTHER | city) | İ | |
| 1Specity, | | | | | · · · · <u></u> | l | |
| IV. CONTAINMENT 01 CONTAINMENT OF WASTES (Check one) IP A. ADEQUATE, SECURE | □ B. MODERATE | <u>⊊</u> C. № | | JATE, POOR | D D INSECUR | IE. UNSO | DUND, DANGEROUS |
| 02 DESCRIPTION OF DRUMS, DIKING, LINERS, E | BARRIERS, ETC. | | | | | | |
| No liner provided. | Quality of co | over ma | teri | al used is r | not adequa | te | eand |
| and gravel was use | ed for daily an | d final | COV | er. No leac | thate coll | ectic | in in |
| systems provided. | Surface topogr | ranhy o | flar | ndfill may e | made com | nondi | ina ina |
| <u></u> | Dar 2 mag - 1-10- | caping - | I shows | ilitata moj - | incom age | honer | .11K• |
| V. ACCESSIBILITY | | | | | | | |
| 01 WASTE EASILY ACCESSIBLE: X: YES 02 COMMENTS | | | | | | | |
| Site is e | easily accessibl | le to p | ublic | ; no fencir | g provide | d. A | barrier |
| on the entrance ro | ad prevents acc | cess to | vehi | cles. | O 1 | | . 501111 |
| VI SOUDCES OF INFORMATION | | | | | | | |

New York State Department of Environmental Conservation files. Site inspection conducted 1/16/85 by New York State contractor.

| | | | POTE | NTIAL HAZAF | RDOUS W | ASTE SI | TE | | ENTIFICATION |
|--|---------------------------|------------|----------------------------------|-------------------------------|----------------------|--------------------|-----------------------------|-----------------|---|
| | | | , , , | SITE INSPEC | | | - | O1 ST | D980508139 |
| | | | PART 5 - WATER | _ | | - | ENTAL DATA | NI | 17900200139 |
| M BBINIYA | | 51 V | | · | · . | | | | |
| II. DAINKI | NG WATER SUP | PLY | | | nknoim | | | | |
| .01 TYPE OF (Check as a | DRINKING SUPPLY | | | 02 STATUS | | | | 03 | DISTANCE TO SITE |
| | _ | URFACE | WELL | ENDANGERE | | | MONITORED | | 0.42 |
| COMMUNI | | AI | esa∑ Zi.d | A. 🖸 D. 🗔 | B. E. | | C. □ F. □ | Α. | 0.17 (mi) |
| NON-COM | MUNITY | C = | ט. עב | 0.0 | <u> </u> | <u> </u> | F. C | | *************************************** |
| | NDWATER WATER USE IN VICE | UTY Marie | Ma: | | | | | | |
| | | | | | | | | | |
| TA. ONLY SOURCE FOR DRINKING DISCUSSED, UNUSEABLE (United bither sources available) (United bither sources available) (United bither sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (Industrial, INDUSTRIAL, INDUSTRIAL, IRRIGATION (No other sources available) | | | | | | | | | |
| 02 POPULATION SERVED BY GROUND WATER 767 03 DISTANCE TO NEAREST DRINKING WATER WELL 0.17 (mil) | | | | | | | | | |
| 04 DEPTH TO | O GROUNDWATER | | 05 DIRECTION OF GRO | OUNDWATER FLOW | 06 DEPTH TO | | 07 POTENTIAL YIEL | ٥ | 08 SOLE SOURCE AQUIFER |
| | 66 | ١ | Estimated | to be W-NW | OF CONC | | of aquifer unknown | _ (gpd) | □ YES 🌠 NO |
| | | | deptr. and location relative to: | | | | | - (gpc/ | |
| A community well developed in the bedrock aquifer of concern is located 0.42 miles north of the site at the Schreiber Water Works. The well serves 110 people. Other unreported private wells are probably developed in the aquifer of concern. | | | | | | | | | |
| 10 RECHARG | SE AREA | | | | 11 DISCHAR | GE AREA | | | |
| X YES | COMMENTS | | | | ₩ YES | COMMENT | rs | | |
| □ NO □ NO | | | | | | | | | |
| IV. SURFACE WATER | | | | | | | | | |
| O1 SURFACE WATER USE (Check one | | | | | | | | | |
| X: A. RESERVOIR, RECREATION | | | | | | | | | |
| 02 AFFECTE | D/POTENTIALLY AF | FECTED BO | DIES OF WATER | | | | | | |
| NAME. | | | | | | | AFFECTED | | DISTANCE TO SITE |
| | romn Dirrom | | | | | | | | 0.28 |
| | amp River | | | | | | = | | (111) |
| | | | | | | · · | [| - | (mi) |
| | | | | | | | | | (mi) |
| V. DEMOG | RAPHIC AND P | ROPERTY | INFORMATION | | | | | | |
| 01 TOTAL PO | OPULATION WITHIN | | | | | 02 | DISTANCE TO NEARE | ST POPU | ILATION |
| ONE (1) | MILE OF SITE | TW | O (2) MILES OF SITE | THREE (§ | MILES OF | SITE | | 0 17 | |
| ^ | OF PERSONS | В | NO OF PERSONS | C | O OF PERSONS | - | | 0.17 | (mi) |
| 03 NUMBER | OF BUILDINGS WITH | IN TWO (2) | MILES OF SITE | | 04 DISTANC | E TO NEARES | T OFF-SITE BUILDING | | |
| | | 372 | | | | | 0.17 | | mi) |
| | | | | | L | | | | 1417 |
| 05 POPULAT | TON WITHIN VICINITY | OF SITE (F | rovide narrative description of | nature of population within i | vicinity of site #.g | , tura: village, d | lensely populated urbar are | ** | |
| The landfill is located approximately 0.3 miles west of the Village of Wingdale, and 6 miles south of the Town of Dover Plains. The site is situated in a rural area. | | | | | | | | | |

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

| \$EPA | SITE INSPE PART 5 - WATER, DEMOGRAP | CTION REPORT HIC, AND ENVIRO | | OI SIV | D980508139 |
|--|---|---|----------------------------|-----------------|---|
| VI. ENVIRONMENTAL INFORM | | | | | |
| 01 PERMEABILITY OF UNSATURATED | ZONE (Check one | | | | |
| □ A 10-4 - 10 | D-8 cm/sec [B 10-4 - 10-6 cm sec] | X C. 10 ⁻⁴ = 10 ⁻³ cm | n/sec E D. GREAT | ER THAN 10 |)- 3 cm/sec |
| 02 PERMEABILITY OF BEDROCK (Chec. | h one, | | | | |
| C A IMPER | RMEABLE © B RELATIVELY IMPERMENT 110 ⁻⁶ cm sec | BLE C. RELATIVE | LY PERMEABLE D | D VERY PI | ERMEABLE to 10 ⁻² cm sect |
| 03 DEPTH TO BEDROCK | 04 DEPTH OF CONTAMINATED SOIL ZONE | 05 SOIL pi | н | | |
| Unknown (ft) | Unknown (ff) | Unl | known | | • |
| 06 NET PRECIPITATION | 07 ONE YEAR 24 HOUR RAINFALL | 08 SLOPE | | | |
| 12(in) | 2.5(in) | SITE SLOPE | DIRECTION OF SITE Southwes | | TERRAIN AVERAGE SLOP |
| OB FLOOD POTENTIAL SITE IS IN NONE YEAR FLOOR | OODPLAIN XSITE IS ON BARR | IER ISLAND, COASTA | L HIGH HAZARD ARE | A, RIVERIN | E FLOODWAY |
| 11 DISTANCE TO WETLANDS & acre mins | | 12 DISTANCE TO CRIT | ICAL HABITAT (or engange | ered species, | |
| ESTUARINE | OTHER freshwater | | N/ | Å(n | ni) |
| A. None (mi) | B <u>< 0.01</u> (mi) | ENDANGERE | D SPECIES: NO | ne | |
| 13 LAND USE IN VICINITY | | | | | |
| DISTANCE TO: COMMERCIAL/INDUSTR | RESIDENTIAL AREAS; NATIO RIAL FORESTS, OR WILDLIF | | AGI PRIME AG LA | RICULTURA ND | L LANDS AG LAND |
| A. 0.28 (mi) | в. 0.10 | (mi) | c. Unknown | (mi) D | Unknown (mi) |

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The Dover Landfill is situated on the side of a ridge. Bordering the site on the west is a marsh. The highest point of elevation on the landfill is approximately 50 feet above the surface of the marsh. About 1,500 feet northeast of the landfill is a peat mining operation. A permanent stream, Swamp River, runs through the marsh and is located 0.28 miles north of the landfill.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NY State Dept. Health. 1982. NY State Atlas of Community Water System Sources. U.S.G.S. Topographic Map. Dover Plains Quadrangle, Dutchess County, New York. Site inspection conducted 1/16/85 by a New York State contractor.

| SEPA | | OTENTIAL HAZARDO SITE INSPECTIO ART 6 - SAMPLE AND FII | n report | OI STATE O | 2 SITE NUMBER D980508139 |
|----------------------------|--|--|-----------------------------------|-------------|---------------------------------------|
| N. SAMPLES TAKEN No+ | | ANTO SAMPLE AND FIL | LED INFORMATION | | |
| SAMPLE TYPE | applicable O1 NUMBER OF SAMPLES TAKEN | 02 SAMPLES SENT TO | | | 03 ESTIMATED DATE RESULTS AVAILABL |
| GROUNDWATER | | | | | |
| SURFACE WATER | | | | <u>-</u> | |
| WASTE | | | | | |
| AIR | | | | | |
| RUNOFF | | | | | |
| SPILL | | | | | |
| SOIL | | | | | |
| VEGETATION | | | | | |
| OTHER | | | | | |
| III. FIELD MEASUREMENTS TA | KEN | | | | |
| on type Radioactivity | No radioac | tivity detected. | eted by Dutchess | | |
| Percent Slope | Slope meas | urements taken o | of site and surro | ounding ter | rain 1/16/85 |
| Volatile Organic vapors | Organic va none detec | | taken onsite wit | th HNU on 1 | /16/85 - |
| | | | | | |
| IV. PHOTOGRAPHS AND MAPS | <u> </u> | | | | |
| 01 TYPE X GROUND X AERIAL | | 02 IN CUSTODY OF EA SC | ience and Technol | logy | |
| D3 MAPS 04 LOCATION | | | (Name of organization or individu | | |

EA Science and Technology, X YES V. OTHER FIELD DATA COLLECTED (Provide narrative description

Soil borings were conducted 12/1/76 on land immediately adjacent and west of the site to determine potential for extension of landfill by the Town of Dover. Subsurface soil investigations were also conducted by Town of Dover on land immediately east of site (refer to Al.1-2) to determine soil type.

Middletown, New York 10940

VI. SOURCES OF INFORMATION (Crie specific references, e.g., state field, sample enarysis, reports,

Dutchess County Department of Health files. New York State Department of Environmental Conservation files. i

| NUMBER OF SIC CODE 10 | FION REPORT RINFORMATION PARENT COMPANY (F appecable) 08 NAME 10 STREET ADDRESS (P. C. Box. RFD *, etc.) 12 CITY 08 NAME 10 STREET ADDRESS (P. C. Box. RFD *, etc.) 12 CITY 08 NAME 10 STREET ADDRESS (P. C. Box. RFD *, etc.) 12 CITY 08 NAME | 13 STATE | 2 SITE NUMBER D98050139 D9 D+B NUMBER 11 SIC CODE 14 ZIP CODE 14 ZIP CODE 14 ZIP CODE 19 D+B NUMBER 11 SIC CODE |
|--|---|---|--|
| NUMBER DE | 10 STREET ADDRESS (P.O. BOX. RFD P. OIC.) 12 CITY OB NAME 10 STREET ADDRESS (P.O. BOX. RFD P. OIC.) 12 CITY OB NAME 10 STREET ADDRESS (P.O. BOX. RFD P. OIC.) | 13 STATE | 11 SIC CODE 14 ZIP CODE 11 SIC CODE 14 ZIP CODE 19 D+B NUMBER |
| NUMBER DE | 10 STREET ADDRESS (P.O. BOX. RFD P. OIC.) 12 CITY OB NAME 10 STREET ADDRESS (P.O. BOX. RFD P. OIC.) 12 CITY OB NAME 10 STREET ADDRESS (P.O. BOX. RFD P. OIC.) | 13 STATE | 11 SIC CODE 14 ZIP CODE 11 SIC CODE 14 ZIP CODE 19 D+B NUMBER |
| DDE 12 94 12 94 12 94 12 12 12 12 12 12 12 12 12 12 12 12 12 | 12 CITY OB NAME 10 STREET ADDRESS (F O Box. RFD P. otc.) 12 CITY OB NAME 10 STREET ADDRESS (P.O Box. RFD P. otc.) | 13 STATE | 14 ZIP CODE 11 SIC CODE 14 ZIP CODE 09 D+B NUMBER |
| NUMBER OF SIC CODE 10 DDE 12 NUMBER OF SIC CODE 10 DDE 12 | OB NAME 10 STREET ADDRESS IP O Box. RFD P. OIC ; 12 CITY OB NAME 10 STREET ADDRESS IP.O Box. RFD P. OIC ; | 13 STATE | 11 SIC CODE 14 ZIP CODE 09 D+B NUMBER |
| DDE 10 NUMBER 06 KC CODE 10 DDE 12 | 10 STREET ADDRESS (P.O. Box. RFD #, OIC.) 12 CITY OB NAME 10 STREET ADDRESS (P.O. Box. RFD #, OIC.) | 13 STATE | 11 SIC CODE 14 ZIP CODE 09 D+B NUMBER |
| NUMBER OF TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTA | 12 CITY OB NAME 10 STREET ADDRESS (P.O Box RFD P etc.) | | 14 ZIP CODE 09 D+B NUMBER |
| NUMBER OF | 08 NAME 10 STREET ADDRESS (P.O. Box RFD # etc.) | | 09 D+B NUMBER |
| DDE 12 | 10 STREET ADDRESS (P.O Box RFD P etc.) | | |
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| 01 NAME None | | | 02 | D+B NUMBER | 10 NAME | in Contract | 11 | D+B NUMBER | |
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| 08 YEARS OF OPERATION | 09 NAME OF OWNER | <u> </u> | | · — · · · · · · · · · · · · · · · · · · | | | 1. | · | |
| III. PREVIOUS OPERA | TOR(S) (Les most rocent | first, provide d | n/v # | different from owner. | PREVIOUS OPERATORS' PARENT (| OMPANIES | /M | | |
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| IV. SOURCES OF INFO | RMATION (Cite aspection | c references (| | itate filez, sample analysi | s. reports | | | ··· ·································· | |
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| | P | OTENTIAL HA | ZARDOUS WASTE SITE | L | FICATION |
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| SEPA | | SITE INSP | PECTION REPORT | O1 STATE O | 02 SITE NUMBER D980508139 |
| | PART 9 | - GENERATOR | TRANSPORTER INFORMATION | | D300 J00137 |
| II. ON-SITE GENERATOR | | | | | |
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| III. OFF-SITE GENERATOR(S) | | | | | |
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EPA FORM 2070-13 (7-81)

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| | POTENTIAL HAZARDOUS WASTE SITE | | L IDENTIFICATION |
|---|--|---------------------------------------|------------------------------|
| SEPA | SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES | | 01 NY 102 D 9 80 5 0 8 1 3 9 |
| II. PAST RESPONSE ACTIVITIES | | · · · · · · · · · · · · · · · · · · · | |
| 01 D A. WATER SUPPLY CLOSED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 E B TEMPORARY WATER SUPPLY PROVID 04 DESCRIPTION | DED 02 DATE | 03 AGENCY | |
| 01 D.C. PERMANENT WATER SUPPLY PROVID 04 DESCRIPTION | DED 02 DATE | 03 AGENCY | |
| 01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 DE CONTAMINATED SOIL REMOVED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 [] F. WASTE REPACKAGED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 C G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 ID H. ON SITE BURIAL 04 DESCRIPTION | O2 DATE | 03 AGENCY | |
| 01 [] I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION | O2 DATE | 03 AGENCY | |
| 01 E. J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 E K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 D L. ENCAPSULATION 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 DM. EMERGENCY WASTE TREATMENT 04 DESCRIPTION | O2 DATE | D3 AGENCY | |
| 01 D N CUTOFF WALLS 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 D O EMERGENCY DIKING/SURFACE WATER 04 DESCRIPTION | R DIVERSION 02 DATE | 03 AGENCY | |
| 01 D. CUTOFF TRENCHES/SUMP 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 D Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION | 02 DATE | 03 AGENCY | |

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| II PAST RESPONSE ACTIVITIES (Commund) | | | |
| 01 DR BARRIER WALLS CONSTRUCTED 04 DESCRIPTION | O2 DATE | 03 AGENCY | Υ |
| 01 E S. CAPPING COVERING 04 DESCRIPTION | 02 DATE | 03 AGENCY | r |
| 01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION | 02 DATE | 03 AGENCY | Υ |
| 01 © U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION | O2 DATE | 03 AGENCY | ſ |
| 01 □ V. BOTTOM SEALED 04 DESCRIPTION | 02 DATE | 03 AGENCY | <i>,</i> |
| 01 ☐ W. GAS CONTROL 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 □ X. FIRE CONTROL 04 DESCRIPTION | 02 DATE | 03 AGENCY | 7 |
| 01 E Y. LEACHATE TREATMENT 04 DESCRIPTION | 02 DATE | 03 AGENCY. | |
| 01 🗆 Z. AREA EVACUATED 04 DESCRIPTION | 02 DATE | 03 AGENCY | |
| 01 🗇 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION | 02 DATE | 03 AGENCY. | |
| 01 © 2. POPULATION RELOCATED 04 DESCRIPTION | 02 DATE | 03 AGENCY_ | |
| 01 D 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION | O2 DATE | 03 AGENCY_ | |
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| III. SOURCES OF INFORMATION (Cae specific release | ances e.g., state files sample analysis reports! | | |
| | | | |



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

NY D980508139

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION TO YES - E NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

In 1972, legal action was taken against the Town of Dover by the Dutchess County Department of Health to restrain the Town from using the landfill due to violations of the State Health Laws and Sanitary Codes. In 1974 the Commissioner of Health found the Town of Dover Landfill to be operating in violation of Part 360 Regulations and demanded that plans be prepared and actions taken to upgrade those operations. "Operational Plan - Addendum Number One, Town of Dover Sanitary Landfill" was prepared by R. Friedman, P.E., in 1978 (refer to Appendix Al.1-2).

III. SOURCES OF INFORMATION (Cite specific references, e.g., state ties, sample analysis, reports)

Dutchess County Department of Health files (Appendix A1.1-2 and A1.1-4).

6. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

6.1 ADEQUACY OF DATA

There is no analytical data available to evaluate the status of potential contaminant transport routes, i.e., ground water, surface water, and air.

Gross air quality was evaluated during the Phase I site inspection using a photoionization detector (HNU). HNU measurements obtained did not indicate any air quality problems.

6.2 RECOMMENDATIONS

Based on the lack of available data and the potential for ground-water and surface water contamination at the Dover Landfill, it is recommended that a Phase II study be conducted. The proposed study would include eight tasks: data collection/site reconnaissance, geophysical studies, preparation of final sampling plan, conducting the sampling program, environmental assessment, remedial cost estimate, and report preparation.

6.3 PHASE II WORK PLAN

In order to satisfy the aforementioned project purpose and to address the general inadequacies stated previously, EA would perform the following eight tasks. In addition, EA would develop a Health and Safety Plan for onsite field activities (currently assumed to require Level D protection) and a

site-specific QA/QC Plan for all environmental measurement procedures. These two plans would be submitted to the NYSDEC for approval prior to initiating any field activities.

6.3.1 Task 1 - Mobilization and Site Reconnaissance

Project mobilization includes review of the Phase I report and updating the site data base with any new information made available since completion of the Phase I report. Based on that review, a draft scope of work for this site will be agreed to and a project schedule developed. At this time, a draft Quality Assurance/Quality Control (QA/QC) document will be prepared in accordance with the most up-to-date NYSDEC guidelines.

Site reconnaissance will be performed to examine general site access for Phase II studies. Site reconnaissance will familiarize key project personnel with the site, enable the project geologists to evaluate potential boring/well locations, and enable the project Health and Safety Officer to develop specific health and safety requirements for the field activities. Emergency, fire, and hospital services will be identified. Standard practice in site reconnaissance is an air survey with a HNU photoionization detector (HNU). The air survey would be performed around the site perimeter and throughout the site for safety purposes. Detection of releases to air during site reconnaissance may warrant further confirmation studies. Based on the Phase I study, it is expected that field activities will require only Level D health and safety protective measures.

6.3.2 Task 2 - Geophysics

Multidepth EM and earth resistivity surveying will be performed around the site perimeter to evaluate the potential presence of ground-water contaminant plumes and stratigraphic conditions. The number of stations and value of depth settings will be determined on the basis of field conditions. Results of the geophysics will be used to refine the specifications for locations, depths, and number of observation wells to be installed.

6.3.3 Task 3 - Preparation of Final Sampling Plan

All data collected during Tasks 1 and 2 will be evaluated to finalize sampling and boring/well locations. The final sampling plan will be developed and submitted to NYSDEC for approval. The plan will include final sampling locations; boring and well specifications; and reference pertinent portions of the QA/QC Plan. A final budget will be developed to complete the drilling and sampling program.

6.3.4 Task 4 - Test Borings and Observations Wells

Based upon currently available information, EA recommends the installation of six (three pairs) test borings/observations wells (three screened in the unconsolidated sediments and three completed in bedrock). This work would be performed under the fulltime supervision of a geologist. It is anticipated that the following drilling methods will be used: (1) hollow-stem auger in the unconsolidated sediments, and (2) air or water rotary in bedrock. Prior to the drilling of each boring/well, and at the completion of the last boring/well,

the drilling equipment which comes in contact with subsurface materials will be steam-cleaned, as well as the split spoon sampler after obtaining each sample. Soil sampling will be performed using a split spoon sampler at approximately 5-ft intervals and at detected major stratigraphic changes. An HNU would be used to monitor the potential organic vapors emitted during drilling operations and from each soil sample. Samples of major soil/unconsolidated sediment units will be collected for grain-size analysis.

It is anticipated that the wells to be installed at this site will be completed in the unconsolidated sediments and in weathered or competent bedrock. Wells screened in the unconsolidated sediments will be completed approximately 10-15 ft below the ground-water table. Standard construction of such a well would include 10 ft of 4-in. diameter threaded-joint PVC screen and an appropriate length of PVC riser with a bottom plug cap, sand pack, bentonite seal, and protective surficial steel casing with a locking cap. Wells screened in bedrock will be completed approximately 10-15 ft into the saturated bedrock. Standard construction of such wells would be the same as for wells screened in the unconsolidated sediments, except that a grout seal will be placed from about 5 ft into bedrock to ground surface.

Upon completion and development of the wells by air surging/pumping, the vertical elevation of the upper rim of each well casing will be surveyed in order to aid in evaluation of the ground-water flow direction. Depending upon the yield of each Phase II well, a short-term, low-yield pumping test will be performed in each well.

For cost estimating purposes, it is assumed that:

- a. The depth of each of the three wells screened in the unconsolidated sediments will be 15 ft below ground surface, and the depth of each of the three wells screened in bedrock will be 50 ft below ground surface.
- b. The 6 wells will require ll days to install, develop, and test.
- c. All drill sites are accessible by truck-mounted drilling rigs as determined by the driller.
- d. There are no excessive amounts of cobbles/boulders which would increase drilling time.
- e. Steam cleaning of drilling/sampling equipment will be performed at each boring/well location. The fluids will be discharged to ground surface.
- f. All drill cuttings, fluids, and development water will be left on, or discharged to, the ground surface in the immediate area of the activity.
- g. That permission from appropriate land owners to drill borings/wells on their property will be a simple process (expedited by the NYSDEC, if necessary), so that delays during field operations are not incurred.

6.3.5 Task 5 - Sampling

All sampling and analysis will be conducted in accordance with the project QA/QC Plan. The analytical program for every water and sediment sample will include the 130 organic and 25 inorganic parameters listed in Statement of Work No. 784. New York State Department of Environmental Conservation Superfund and Contract Laboratory Protocol, January 1985. Also, all additional non-priority pollutant GC/MS major peaks will be identified and quantified. Major peaks will be considered as those whose area is 10 percent or greater than the calibrating standard(s). Based upon the currently available information, collection and analysis of the following numbers and types of samples is recommended:

- 6 Ground-water samples (one from each Phase II well).
- 2 Surface water samples.
- l Leachate sample.
- 3 Sediment samples (one from each surface water sample and leachate sample location).

6.3.6 Task 6 - Contamination Assessment

EA will evaluate the data obtained during the records search and field investigation, prepare final HRS scores and documentation forms, complete EPA Form 2070-13 and Part One of 2070-12 and summarize site history, site characteristics, available sampling and analysis data, and determine the adequacy of the existing data to confirm release, and if there is a population at risk.

6.3.7 Task 7 - Remedial Cost Estimate

EA will evaluate remedial alternatives for the site and develop a list of potential options given the information available on the nature and extent of contamination. Approximate costs estimates for the selected potential remedial options will be computed. This work is not intended to be, or a substitute for, a formal cost effectiveness analysis of potential remedial actions.

6.3.8 Task 8 - Final Phase II Report

In accordance with current (January 1985) NYSDEC guidelines, the Phase II report will include:

- a. The results of the Phase II investigation, complete with boring logs, photos, and sketches developed as part of the Phase II field work.
- b. Final HRS scores with detailed documentation.
- c. Selected potential remedial alternatives and associated cost estimates.

In addition to the final Phase II report, the following raw data and resulting reduction would be provided to NYSDEC:

- a. geophysical
- b. well logs
- c. all sampling forms and data
- d. all analytical data

- e. chain-of-custody forms
- f. soil sampling forms and classifications
- g. other collected information.

6.3.9 Task 9 - Project Management/Quality Assurance

A Project Manager will be responsible for the supervision, direction, and review of the project activities on a day-to-day basis. A Quality Assurance Officer will ensure that the QA/QC Program protocols are maintained and that the resultant analytical data are accurate.

6.4 PHASE II COST ESTIMATE

Based on the scope of work and assumptions described above, the estimated costs to complete the Phase II investigation of the Dover Landfill are as follows:

| Consultant Costs | \$33,440 |
|--------------------------------------|-----------------|
| (including labor, direct costs, fee) | |
| Drilling Contractor | 22,325 |
| Laboratory | <u>24.000</u> |
| Total | \$79,765 |

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H.Y.S. D.E.C. WHITE PLAINS OFFICE

Operational Plan
Addendum Number One

Town of Dover Sanitary Landfill Dutchess County, New York

Prepared by:

Ronald B. Friedman, PE 4 Cider Mill Loop Wappingers Falls, N.Y. 12590

December 5, 1978

REC'D



Town of Dover Sanitary Landfill Dutchess County, N.Y.

1. Topography and Subsurface conditions

The area used for the landfill and the adjacent lands are either Carlisle Muck or of the Dover fine sandy loam soils grouping. The area used for the landfill encompasses the westerly section of a ridge that runs generally north/south and the easternly portion of a relatively flat area of Carlisle Muck. The ridge portion and area to the East are classified as Dover fine sandy loam in the ledgy, rolling phase, with the entrance way passing over the Dover fine sand loam in the ledgy hilly phase. The Dover fine sandy loam originates from firm glacial till, chiefly from crystalline limestone with a shallow to medium depth to bedrock.

On December 1, 1976, soil borings were taken on the land immediately to the West of the present site to determine whether expansion of the site in that direction was possible. The location of these borings are shown on the plans and described on the sheet included herein. From these tests, groundwater is determined as being at elevation 418, approximately 6 feet below the estimated lowest elevation of land used for the landfill or elevation 424.

The area to the East was the subject of subsurface soils investigation during the latter part of May, 1978 when a series of trenches were dug 100' apart starting from near the edge of the present landfill and extending downhill towards the West. Although the NYDEC had been contacted to observe these dug trenches, NYDEC declined the opportunity for first-hand observation of the subsoil conditions. These excavations revealed depths to rock of from as little as 1 foot to no rock observed at a 5' depth.

The landfill exists over two different soils types, the muck and fine semidy loam. Based on the USGS quadrangle, the survey map of the area, and visual observation of the lay of the land, it is estimated than about 15% of the landfill area exists over the fine sandy loam with the remaining 85% existing over original Carlisle Muck. This 15% of the landfill is then the sole area where portions may exist with less than 5' to rock.

The nature of the topography and grading of the landfill area is such that surface runoff from areas adjacent to the landfill do not flow over the landfill, and the only surface water flowing off of the landfill is the result of rain that has fallen only on the landfill area.

Since the original landform upon which the landfill was built is one side of a ridge leading to the flat area to the West, groundwater flows from the landfill primarily to the West. Any flow towards the North or South is but of short duration, as the land rises shortly beyond the limits of the landfill. Hence, any northerly or southerly groundwater flow is directed in a westerly direction.

The soils under the landfill are either fine sandy loam or peat overlying fine sand. These types of soils act as a natural filtering agent and chelating agent, thus aiding to reduce any groundwater contamination by leachate.

The total acreage of the leased site is about 23 acres, of which only about 5 acres have been or will be used for the sanitary landfill.

2. Solid Waste Quantities and Landfill Life

The annual quantity of solid wastes brought to the landfill is estimated at approximately 4500 tons/year or about 20 tons per operating day. Refuse is virtually 100% residential type wastes as no industrial wastes are permitted. Refuse from commercial sources are accepted, but this type of waste represents only a small fraction of the wastes received.

The life of the landfill has been re-estimated, based on the change in landform volume between the creation of the survey map in 1976 and the present elevations. Using this change in volume over a specific time period, it will take about another four (4) years to increase the elevations and grades to those shown on the plans.

3. Operational Characteristics

The landfill is open from 8 AM to 4:45 PM on Tuesday, Thursday, Friday, and Saturday. The landfill is about 1500' from CR #21, and a substantial gate controls access to the site. Signs exist stating the days and hours of operation near the gate and to which part of the landfill refuse is to be brought.

The site is such that all traffic must enter through the single access road and into the landfill site proper. As soon as a vehicle enters the landfill site itself, it is within the view of the operator. This landfill serves a small community, and therefore does not and has not required any formal traffic flow control due to the relatively small number of vehicles entering the site at any one time.

The operator directs the flow of refuse, separating any salvagable materials for later removal. Since the working face or area is small, the operator has sight observation of virtually all refuse deposited.

All cover material is brought into the site from two sources. The Town of Dover operates a soil mining operation adjacent to its recreation area. The soils mined vary from loam and topscil to fine sand and gravel. When the exposed and mined strata is the sands and gravel, such soils are used by the Town for highway and public works projects. When the soils are the topscil and loam, the soils are used for cover at the landfill. When the soils are the sand and gravel, cover material is obtained from the second source.

The second source is from a supplier that has been awarded a low bid contract. The soils so obtained are a sandy loam that received acceptance from Mr. J. Puchalak, PE of NYDEC.

The Town of Dover Highway Department has the responsibility for maintaining an adequate supply of cover material at the site, with the Superintendent of Highways directing the operations.

4. General Considerations

Included with this report is a portion of the USGS map showing the landfill site with the surrounding area. Although the USGS map was photorevised in 1971, it is accurate for this purpose as no residences are known to be any closer to the landfill site than those shown thereon. This map shows the ridge of Dover fine sandy loam jutting into the area of Carlisle Muck, with the Swamp River lying to the East and the Burton Brook lying to the West. The landfill site ridge serves as a drainage basin divide with the site being on the extreme uphill side of the westerly side.

A wind rose that is accurate for the Dover area is not available, the nearest data being availble at the Dutchess County Airport, some 20 miles away.

Approximately 500 feet to the West, an area that has been identified as Freshwater Wetlands by NYDEC personnel exists. Towards the East, a wet area, possibly a Freshwater Wetlands, is found about 25 feet from the edge of where the landfill exists. However, this area is no longer being used, having already reached the design elevations. The only activity contemplated with 75 to 100' of this wet area may be the possible addition of additional cover material as final cover.

5. Fill Progression

Drawings 2 and 3 provide provide cross sections in the East-West direction every 100' for the operator to use as a guide in attaining design elevations and grades.

Refuse is to be deposited in small compact daily lifts, starting in the north-westerly portion of the site and progressing in a clockwise direction. Each area should be built up to about 10'in height by constructing multiple daily lifts of about 5' adjacent to each other until a 50-75 foot wide swath has been created. When the subject area has been raised by the 10', the adjacent 50 to 75' area is then used. In this manner, the entire site will be raised in increments of about 10', easing the determinations of the operator. The operator will thus be creating nearly level planes or slices horizontally through the site. Each finished grade, whether daily or intermediate, shall be graded towards the edge of the landfill as indicated in order to promote runoff of rainwater rather than percolation. The edges of the landfill shall have final slopes of 1:3 to 1:4 as possible and convenient.

As the total elevation of the site increases, the access roadway must be curved towards the central portion and elevated correspondingly, as to follow the final contours of the land as shown on the drawings.

RONALD B. FRIEDMAN, P.E. Consulting Engineer 4 Cider Mill Loop WAPPINGERS FALLS, NY 12590 (914) 297-5679

| son Town | of Dover | Landfill | - 5 |
|----------------|---------------------------------------|----------|---------------------------------------|
| SHEET NO. | | or | · · · · · · · · · · · · · · · · · · · |
| CALCULATED BY. | R8 Fredus | DATE | |
| CHECKED BY | · · · · · · · · · · · · · · · · · · · | DATE | |

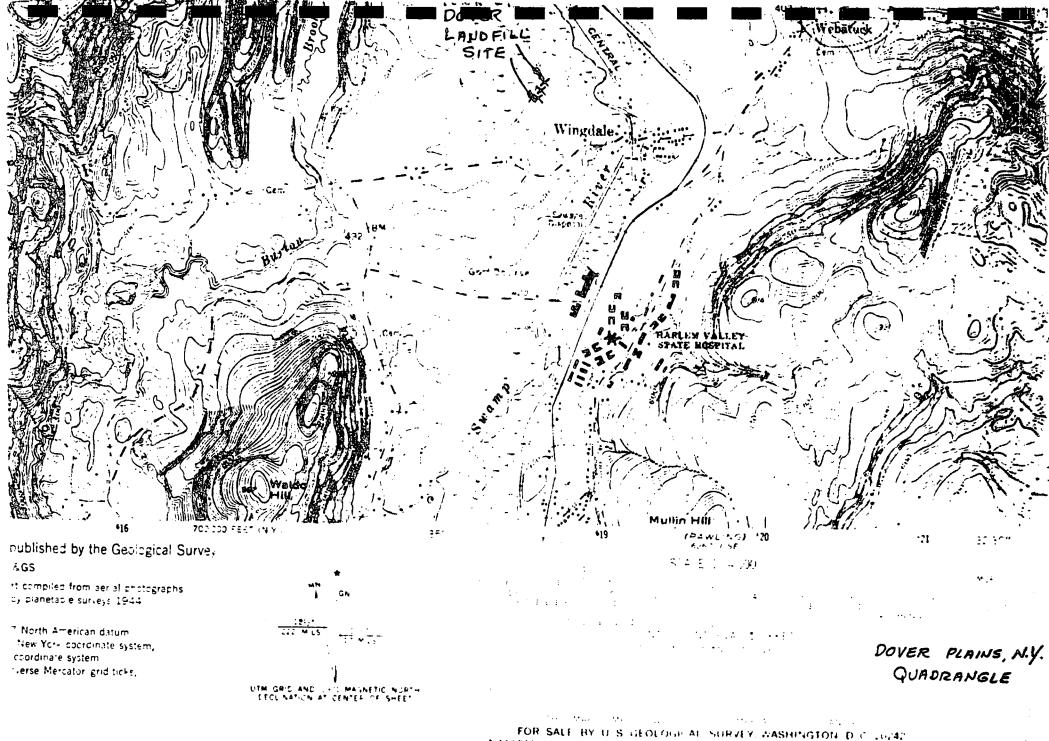
Deep Hole Testing 12-1-76
GROUND SURFACE ELEVATION - 422

#1 0-4' black peat
4-7/2 to 8' Fine sand with traces of clay
seepage C1'
GWC 4' - Eler 418

#2 0-3' black peat
3'-6' fine sand with traces of clay
seepage C'
GW C 4'+ Elev 418
#3 0-4' black peat

1'- fine sand Seepage C!' G.W C 4'+ Elev 418

Holes dug by D.C.H.D Mosquito Control Section
" observed by David T. Ruff, Assoc. Sanitarian, D.C.H.D



A FOLDER DESCRIBITOR TERRESHAR TO THAT AND SETTINGS ANABARDED TO RESPECT

TOWH OF DOVER DUTCHESS COUNTY, N.Y.

APPENDIX #1.1-3

Blesse explació

Joseph Bergani Plearant Ridge Road Windenle, M.Y. tet. ., 1972

Mr. Richard Pelkey, Supervisor Town of Dover

Dear Sir:

Four years ago when I purchased my home on Pleasant Ridge Road, Wingdale, (a rough sketch is furnished herewith for your reference), It was generally enticipated in the community that the Dover Pisposal Area would is closed upon the opening of the New Dump fite of Cricket Hill.

The Crickett Hill Cite has now been in operation for quite some tirm, however the Bover Site continues to be open each Sunday, Monday, and Tuesday. I assume therefore that the Town of Dover needs and must operate two Dumps. Since this is the only Town in' the County with two Pump Sites, it obviously follows that operation costs involved are twice that of any other Town. An evaluation of the basis providing justification for this excessive expenditure of Taxpayer s funds may be in order.

In the event that findings of this evaluation support a determination for the continuing operation of two Dumps, then surely the people must bear the costs for adequate manpower and equipment to provide proper maintenance at the Dover Site and its access road for the protection of my family, guests and neighbors against the sanitary and safety hazards that now exist.

In the past four years I have reported these conditions several times. however measures taken by the Responsible Authority have always been less than adequate to effect correction. Since the location of my home is such that my family and guests, as well as my neighbors, are direct victims of adverse affects emanating from these deplorable conditions, I am once more requesting that action be taken to effect some permanent corrective measures.

The Dump Site, which is in somewhat better condition now than it was four years ago, is still far from sanitary, with exposed garbage in evidence at all times, generating stench and hreeding endangering the health of persons in close proxi-

The private road leading to the fump Site is at all times strewn with garbage falling from vehicles enroute to the Site, adding to the unsanitary conditions reported above. This road, which is depicted on the accompanying stetch by the shaded ares, is now in such ill repair that it is impossible to enjoy my home's immediate surroundings without fear of iciliy injury from the Thying stones being deflected by the passing vehicles, not to mention breathing the clouds of dust which are ever present.

At the location marked A on the sketch, drainage of the road is such that during every rain fall the runoff is directed to my lawns, flooding same, and eventually finding its way into my basement.

The utter disregard for the protection of our well being is made evident by the fact that the Dover Site, located in the midst of a residential area, is open on Sunday precluding any possibility for the residents to enjoy any serenity on the Sabbath, while the Cricket Hill Site, an ideal location for Sunday operation, remains closed.

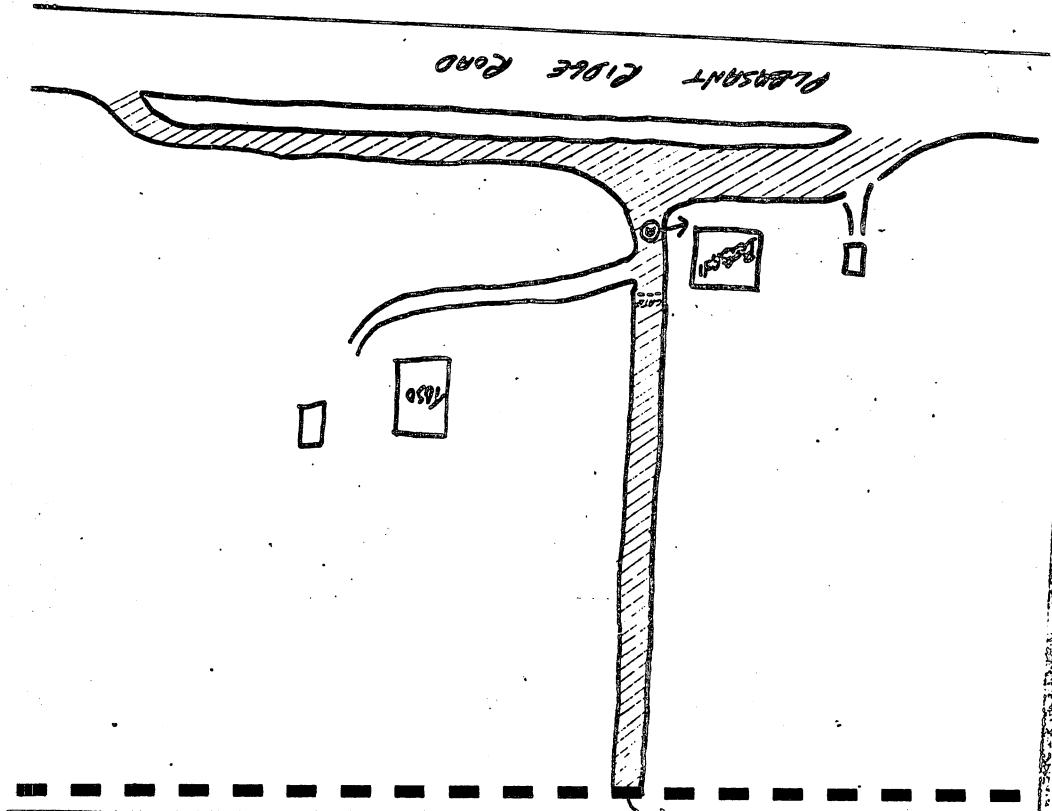
In conclusion, be assured that every effort expended by the local authority toward the resolution of the foregoing problems will be greatly appreciated. However be advised, that this writer will not hesitate to present every instance of non compliance with Sanitary and Safety Codes to higher levels of authority for assistance to effect correction.

oseph Bersani

JB:ed

Copies to:

- Elliott McEldowney, Editor Hudson Valley Times, Amenia, K.Y.
- 2. Dr. Vernon B. Link, Commissioner Dept. of Health. Dutchess County Poughkeepsie, N.Y.



p10/2

Mr. Richard Pelkey, Supervisor Town of Dover Town Hall Dover Plains, NY 12522

Re: Town of Dover Refuse Disposal Site (Wingdale site)

AN ORDER BY THE COMMISSIONER OF HEALTH OF DUTCHESS COUNTY

Based upon facts and findings submitted to me, it has been determined that the above noted facility is being operated in contravention to Part 19 of the New York State Sanitary Code. Specifically, (1) Refuse is being deposited into surface waters in violation of Part 19.2 (a)($\overline{2}$);—(2) The dumping of refuse is not confined to an area which can be effectively maintained and operated in violation of Part 19.2 (a)(3); (3) Refuse is not being compacted and covered daily with six (6) inches of cover material in violation of Part 19.2 (a)(4); (4) Two feet of cover material has not been placed after the final deposit of refuse in violation of Part 19.2 (a)(4); (5) Effective means are not taken to control rodents and insects in violation of Part 19.2 (a)(5); (6) Fencing or other suitable means are not used to control windblown papers in violation of Part 19.2 (a)(6).

Based on the foregoing, you are hereby Ordered:

- I. THAT within ten (10) days from receipt of this Order all refuse must be compacted and covered as required by Part 19.
- II. THAT within ten (10) days from receipt of this Order effective means must be taken to control rodents and insects.
- III. THAT within ten (10) days from receipt of this Order effective means must be taken to control windblown papers.
- IV. THAT within ten (10) days from receipt of this Order there must be placed a minimum of two feet of cover material over completed areas.
- V. THAT upon receipt of this Order all further deposition of refuse into surface waters must be discontinued.
- VI. THAT within ten (10) days from receipt of this Order, effective means be taken to prevent pollution of surface waters from that refuse alleady deposited into same.

Mr. Richard Pelkey, Supervisor

Page 2

- VII. THAT within ten (10) days from receipt of this Order refuse shall be dumped and confined to an easily manageable area.
- VIII. THAT upon fadlure to abide by items I, II, III, IV, V, VI, VII, all operations shall cease and desist at said disposal site and its use discontinued for the disposal of refuse.

Please be Advised that failure to abide by this Order could result in the Commissioner'assessing penalties in the maximum of one hundred (100.00) dollars for widlationlof the Order and in the maximum of fifty (50.00) dollars for each violation of Part 19.

The penalties may be applied for each day you are in violation.

VERNON B. LINK, M.D. Commissioner of Health County of Dutchess

DATED: April 11, 1972

Poughkeepsie, New York

vbl/dtr/sjd

cc: Town of Dover Town Board

P.10/7

Mr. Joseph Puchalik, WPRO

D. Ruff

Town of Dover Refuse Disposal Site - Wingdals

November 14, 1978

Attached is a case summary report relative to the above. The Town Supervisor is Richard Pelky. The site is leased by the Town and owned by Leo and Helan Hostachetti, Wingdale, New York.

The representatives of this Department involved in this matter are Ellis Adams, Waste Management Specialist; David Ruff, Associate Sanitarian; Jack Hill, Acting Director of Environmental Health Services and Stephen Redmond, M.D., Commissioner of Health.

As you are aware, this Department is presently pursuing enforcement proceedings through the Supreme Court.

Pictures of operations available on request.

DTR/fbm Att.

Joe, liber uthuhd me inspertion refirst from 10/17/22, 11/13/23 a 11/14/22 which me not meludid in some rumming refirst.

CASE SUMMARY REPORT

Town of Dover Refuse Disposal (Wingdale)

3/8/73 - Inspection by E. Adams indicates the following violations:

- 13.2(1) Open burning of wood and related material in a 85-gallon centainer.
- 19.2(4) Refuse not covered daily with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not properly compacted.
- 19.2(5) Effective means not taken to control flies, rodents, insects and vermin.
- 19.2(7) Salvaging of refuse creating a problem.
- 3/8/73 Inspection by E. Adams indicates the following violations:
 - 19.2(4) Refuse not covered daily with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not properly compacted.
 - 19.2(5) Effective means not taken to control flies, redents, insects and vermin.
 - 19.2(7) Salvaging of refuse creating a problem.

Site closed at time of inspection.

- 3/28/73 Inspection by E. Adams indicates following violations:
 - 19.2(4) Refuse not covered daily with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not properly compacted.
 - . 19.2(7) Salvaging of refuse creating a problem.

Site closed at time of inspection.

- 4/2/73 Inspection by E. Adams indicates the following violations:
 - 19.2(4) Refuse not covered daily with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not preperly spread and compacted.
 - 19.2(7) Salvaging of refuse creating a problem.
- 4/17/78 E. Adams and J. Hill had meeting with Town Supervisor and three members of Town Board to discuss operation and violations. There was an agreement that site would be brought into compliance by May 21, 1973.
- 4/26/73 Inspection by E. Adams indicates the following violations:
 - 19.2(1) Open burning of refuse.
 - 19.2(4) Refuse not covered daily with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not properly compacted.
 - 19.2(7) Salvage of refuse creating a problem.

- 5/18/79 Inspection by E. Adams indicates the following violations:
 - 19.2(4) Refuse not covered dully with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not properly compacted.
 - 19.2(7) Salvaging of refuse creating a problem.

Sits closed at time of inspection.

- 6/6/79 Inspection by E. Adams indicates the following violations:
 - 19.2(4) Refuse not covered daily with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not properly compacted.
 - 19.2(7) Salvaging of refuse creating a problem.

Site closed at time of inspection.

- 6/12/78 Inspection by E. Adams indicates following violations:
 - 19.2(4) Refuse not covered daily with at least 6 inches of cover material.

 Completed areas not properly covered. Refuse not properly covered.

 Refuse not properly compected.
 - 19.2(7) Salvaging of refuse creating a problem.

A copy of all inspection reports was sent to the Town Supervisor & Town Board.

- 6/15/73 D. Ruff verified with Town Clerk that Lee and Helen Mostachetti, Wingdale, New York, are owners of property.
- 6/26/73 Inspection by E. Adams and D. Ruff indicates the following violations:
 - 19.2(4) Completed areas not properly compacted and covered with 2 feet of cover material. Refuse not covered and compacted daily.
 - 19.2(5) Means not taken to control flies, redents and insects.
- 6/27/73 Inspection by E. Adams indicates the following violations:
 - 19.2(1) Presence of charred material indicates open burning.
 - 19.2(3) Dumping permitted without proper control and supervision.
 - 19.2(4) Refuse not properly compacted and covered daily. Completed areas not properly compacted and covered with 2 feet of cover material.
 - 19.2(5) Effective means not taken to control flies, rejents and insects.
 - 19.2(7) Salvaging of rofuse creating a problem.
 - 19:2(8) Site empansion into low swampy area without approval.
 - Site closed at time of inspection.

- 7/11/79 Inspection by E. Adams indicates following violations:
 - 19.2(3) Dumping of refuse mot confined to an area which can be effectively maintained and operated.
 - 19.2(4) Refuse not properly compacted and covered daily. Compacted and covered.
 - 1912(5) Effective means not taken to central flies, rodents and insects.
 - 19.2(7) Salvaging of refuse execting a problem.
- 19.2(8) Refuse disposal area being expanded into an area not papproved for this purpose. Area is every.

1000 - 1000 (1000 A) A) 1000 A) 1000 A) 1000 A)

Site was elected at time of inspection.

- 7/18/73 Letter of complaint from Jessph Berrani relative to operation and maintenance.
- 7/25/78 Inspection by E. Adams indicates the following violations:
 - 360.2(1) Evidence of on site burning.
 - .860.2(2) Refuse being deposited into surface water.
 - 360.2(3) Refuse not confined to an area which can be effectively operated and maintained. No supervision or fencing.
 - 360.2(4) Refuse not compacted and covered daily. Refuse protruding through completed areas.
 - 360.2(5) Effective means not taken to control flies, redents and other insects.

Site normally closed but was open on 7/30/73, a copy of inspection report sent to Town Supervisor and Board.

- 7/30/73 Inspection by E. Adams indictes the following violations:
 - 360.2(1) Evidence of on site burning.
 - 360.2(2) Refuse deposited into surface water.
 - 860.2(3) Refuse not confined to an area which can be effectively operated and maintained.
 - 360.2(4) Refuse not compacted and covered daily. Refuse protruding through completed areas.
 - 860.2(5) Effective means not taken to control redents, flies and other insects.
 - \$60.2(7) Salveging of refuse creating a nuisance.
 - On 8/1/78 a copy of imposition report cent to Torm Supervicer and Torm Board.

- 8/16/73 Inspection by E. Admis indicates following violations:
 - 860.2(8) Refuse not confined to an eres which can be effectively operated and maintained.
 - The first state of the management of the following states 360.2(4) Refuse not compacted and covered daily. Refuse prefruding through completed areas.
 - Marine Company Trans 360.2(5) Effective means not taken to control redents, flies and other insects.
 - On 9/19/79 copy of inspection report sent to Town Supervisor & Board. To interest
- 8/22/78 Inspection by D. Ruff and accompanied by Dr. Redmond indicates following violations:
 - 860.2(1) Evidence of on site burning.
 - The same of the same of the 360.2(3) Refuse not confined to an axes which can be effectively operated and maintained.
 - 380.2(4) Refuse not compacted and covered dilly. Completed areas not properly cov covered and graded.
 - 360.2(5) Effective means not taken to control redents, flies and other insects. Market of the same of the same

Site classed at time of inspection. On 8/28/73 a capy of inspection report sent to Term Beard and Supervisor.

- 9/5/79 Inspection by D. Ruff & E. Adams and conference with Supervisor Pelbey and Highway Superintendent Anderson. See attached manarandums on conference. Violations were as follows:
 - 360.2(4) Refuse not properly compacted and covered daily. Refuse protruding through completed areas.
 - 360.2(5) Effective means not taken to control redents, flies and other insects.
 - On 9/6/73 capy of inspection report sent to Term Supervisor & Term Board.
- 9/12/73 Inspection by E. Adams indicates following violations:
 - 360.2(2) Refuse deposited into low swampy area.
 - 360.2(3) Refuse not confined to an area which can be effectively operated and maintained. No supervision or fencing.

and the state of t

- 360.2(4) Refuse not properly compacted and covered. Refuse protruding through completed areas. Improper alopes on completed areas.
- 360.2(7) Salvaging of refuse creating a nuisance.
- On September 24, 1973 copy of inspection report sont to Term Supervisor & Beard.

- 9/19/78 Inspection by E. Adams indicates following violations:
 - \$60.2(1) Evidence of on cits burning.
 - 360.3(3) Refuse not configed to an area which can be offertively operated and maintained.
 - 360.2(4) Refuse not properly comparted and covered daily. Refuse pretruding through completed areas.
 - 360.2(8) Effective means not taken to control redents, flies and other insects.
 - 860.2(7) Salveging of refuse creating a nulcance.
 - On 16/1/78 copy of inspection report sent to Team Supervisor & Beard.
- 10/2/78 Inspection by E. Adams indicates following violations:
 - \$60.2(1) Bufntagnet time is discontinuous diskidentes effectively operated and maintained.
 - 960.2(4) Refuse not preparly compacted and opvered dealy. Refuse protruding through completed areas. Completed areas not preparly finished.
 - 360.2(8) Effective means not taken to control redents, flies and other incerts.
 - 360.2(7) Selveging of rofuse creating a muleance.
 - On 10/12/73 capy of inspection report sent to Town Supervisor & Board.
- 10/11/79 Inspection by E. Adams indicates the following violations:
 - 360.2(1) Eurning at time of inspection and evidence of on site burning.
 - 360.2(3) Refuse not confined to an area which can be effectively operated and maintained.
- 3 360.3(4) Refuse not properly compacted and covered daily. Refuse protruding through completed areas. Improper slopes on completed areas.
 - \$60.2(5) Effective means not taken to control redents, flies and other insects.
 - 360.2(7) Salvaging of refuse creating a nuisance.
 - In spection report in process of being sent to Town Supervisor & Board.
- 11/5/75 Inspection by E. Adams indicates the following violations:
 - 360.2(3) Refuse is not confined to an area which can be effectively operated and maintained.
 - 360.2(4) Refuse is not properly compacted and covered daily. Refuse protruding through completed areas.

- 260.2(5) Effective means are not taken to central redents, flies and other insects.
- 360.2(6) Blowing paper is a problem.
- 360.2(7) Salvaging of refuse is exeating a muisance.

Copy of inspection report in process of being sent to Town Supervisor & Town Board.

els els

Dutchess County Bepartment of Health

P. 1-12

22 MARKET STREET
POUGHKEEPSIE, N. Y. 12601



Mr. Richard Pelkey, Supervisor Town of Dover Town Board Town Hall, Town of Dover Wingdale, New York 12594

Re: Town of Dover Refuse Disposal Site V. Wingdale

An Order By The Commissioner of Health of Dutchess County

Based upon facts and findings by representatives of this Department submitted to and reviewed by me it has been determined that the Town of Dover Refuse Disposal Site, Wingdale, is and has been operated and maintained in non-conformance with Part 360 Title 6. NYCRR, the New York State Conservation Law and the Public Health Law of the State of New York and in a manner which can cause a public health nuisance and hazard and be detrimental to the environment.

Specifically, the disposal site has been expanded into areas which have not been approved for the disposal of refuse, dumping of refuse has not been confined to an area which can be effectively maintained and operated and controlled effectively by supervision, signs, fencing or equally effective means, the refuse has not been covered and compacted properly and daily and completed areas have not been properly compacted and covered with at least two feet of suitable cover material and in a manner to allow for effective surface water drainage, and effective means have not been taken to control flies, rodents, insects and other vermin.

Based upon the foregoing and according to the Part 360 NYCRR, the Conservation Law of the State of New York and the Public Health Law of the State of New York and the power invested to me by same, you are hereby Ordered:

I. TIAT on or before April 12, 1974 to submit to me for review and approval engineering plans, reports and specifications showing the suitability of the present site for refuse disposal and how the proposed method of operation will conform to all applicable laws and rules and regulations and procedures for proper management and operation of a sanitary landfill.

- II. THAT on or before March 22, 1974 to properly compact all existing exposed refuse and cover in a satisfactory manner.
- III. THAT on or before Narch 29, 1974 to properly cover, grade and seed all completed areas. Covering is to be done with an acceptable cover material other than the cover that is presently used.
- IV. THAT immediately upon receipt of this order to confine all refuse dumping to an area which can be effectively maintained and operated and to properly compact and cover all refuse daily.
- V. THAT there is to be no further expansion of the disposal site until approval has been granted to do so by this Department and the New York State Department of Environmental Conservation.
- VI. THAT immediately upon receipt of this Order to take effective means to control and eliminate any rodent, insect and vermin problems.

Please Be Advised that after review by this Department of said engineering plans, reports and specifications, you will be so notified of their approval or disapproval.

Be Further Advised that upon your failure to abide by this Order, the Commissioner of Health according to the Public Health Law of the State of New York may assess penalties against you in the maximum of five hundred dollars (500.00) for violation of the Order, the penalties being applied for each day you are in violation and may enter upon the premises to which said Order relates and suppress or remove the nuisances or other matters. The expense of suppression or removal of a nuisance or conditions detrimental to health shall be paid by the owner or occupant of the premises, or by the person who caused or maintained such nuisance or other matters.

Any variance request to the above noted schedule must be substantiated in writing. α

Dated: March 5, 1974

Poughkeepsie, N.Y.

0 0 0000

Stephen R. Redmond, M.D. Commissioner of Health County of Dutchess

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SPECIAL CONDITIONS

No later than six (6) months prior to completion of the landfill site, a detailed closure plan shall be submitted to the New York State Dept. of Environmental Conservation, Region 3 Office.

P1-12

May 14, 1979

Mr. Augustine O'Neill, Supervisor Town of Dover Pleasant Ridge Road Wingdale, New York 12594

> Re: Town of Dover Solid Waste Management Facility

Dear Supervisor O'Neill:

This will confirm the results of our meeting and joint inspection of your landfill on May 11, 1979. The following items refer to items on the attached Facility Inspection Report:

- (1) Leachate stains were visible at various points around the periphery of the site. It was agreed that these areas will be packed with impervious material and seeded to prevent the persistence of this problem.
- (7), (11), (23), (24), (25), (27), (28): These items all relate to the fact that the equipment on-site has been down for repair, and the rubber-tired front end loader used in the interior is not adequate. In the future, you are strongly urged to rent an adequate replacement bulldozer for compaction and covering.
- (8) Refuse protrudes at various places on the site. It was agreed that the operator will dress-up these areas when the new cover material arrives on site.
- (10) Be advised that, as discussed, the first sample ; checked at the Polumbo gravel bank and the second sample checked at the Vincent Farm are acceptable to replace the anacceptable sand presently used for cover. The sample at Vincent Farm is preferable.

Your prompt attention in correcting the enumerated problems is appreciated. Should you have any questions, please call the writer at 485 - 9707.

Very truly yours, Jack R. Hill, Public Health Administrator

by:

Robert J. Vrana, Asst. Public Health Engr. Div. of Environ. Health Services

jrh/rjv/lb

P.143

April 4, 1980

Mr. Augustine O'Neill, Supervisor Town of Dover Pleasant Ridge Road Wingdale, N.Y. 12594

Re: Town of Dover
Solid Waste Management Facility

Dear Mr. O'Neill:

Attached is a copy of a Facility Inspection Report for an inspection of your landfill conducted April 4, 1980. As indicated in this report and the previous inspection report of March 27, 1980, very significant operational problems have developed, the most serious being the quality of cover material and the subsequent problems caused by this material relative to proper daily cover.

In addition to these listed violations of Part 360, "Solid Waste Management Facilities" your attention is directed to Special Conditions #2, #4 and #5 of your Permit to Operate, issued April 20, 1979. It is apparent from the two referenced inspections that the Town of Dover is in direct violation of these special conditions, conditions which the Town had agreed to prior to issuance of this permit.

Accordingly, it is requested that a meeting be held at the site among yoursalf, the site operator, Ellis Adams and the writer, both of this Department, and the site engineer Ronald Friedman. Please call the writer once a mutually convenient date for the Town and Mr. Friedman have been established.

Very truly yours, Jack R. Hill, Public Health Administrator

by:

Robert J. Vrana, Asst. Public Health Engr. Div. of Environ. Health Services

jrh/rjv/lb ec: E. Adams

FACILITY NAME







NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID WASTE MANAGEMENT FACILITY INSPECTION REPORT

MARK BOXES WITH "X" ONLY IF ANSWER IS YES

| | r | - | | | |
|-------------------|------------|----------------|----------|--|---------|
| | - 11 | • | \dashv | LEACHATE | |
| | - 1 | | | 1. Leachate is entering surface water. | ·. |
| | - 1 | | \dashv | 2. Leachate is known to be contravening groundwater standards. | |
| | - 1 | | \dashv | 3. Refuse is being placed into water. | |
| | | | \dashv | BURNING | a sa ir |
| | | | \dashv | 4. Refuse is burning without permit or not under permit conditions. | |
| | | | | 5. There is evidence of unapproved previous burning. | |
| | | | | 3. There is evidence of unapproved previous buildings | 1 |
| | - 1 | | \dashv | COVER | |
| | - 1 | | 4 | 6. Previous days refuse is not covered. | |
| | - 1 | | | 7. Refuse is protruding through daily, intermediate or final cover. | . "1 |
| | | | | 8. Intermediate or final cover is not in place or improperly applied. | 4 . |
| | 1 | | | GRADING | |
| | 1 | | | 9. Depressions, ponding, cracked cover, or stopes steeper than 3 to | Terior |
| | ı | | | 10. Vegetative cover is missing or inadequate on completed areas. | |
| | - 1 | - | \neg | 10. Vegetative cover is missing or madequate on compreted areas. | • : |
| | - 1 | | | 11. Soil erosion or other drainage problems exist. | |
| | | | \dashv | SEPARATION DISTANCES | |
| | ļ | | \dashv | 12. Refuse is closer than 50 feet to site boundaries. | |
| | - 1 | ž | \dashv | 13. Refuse is being placed less than 5 feet above groundwater or bed | rock. |
| • | i | REMARKS | \dashv | 14. Refuse is being placed too close to surface water. | `. |
| | - 1 | 3 | 7 | | |
| | - 1 | ~ | \dashv | NUISANCE CONDITIONS 15. Odors are detectable off site. | ٠. |
| | - 1 | | -4 | 15. Odors are detectable off site. 16. Blowing dust or dirt is a nuisance. | ٠. |
| | - 1 | | \dashv | 17. Papers are uncentrolled or are blowing off-site. | 1. |
| | - 1 | | _ | 18. Methane was is known to be leaving the site. | |
| | 1 | | | | . 4 |
| | - 1 | | -4 | 19. Noise is a nuisance off-site. | |
| | | | \dashv | OPERATION CONTROL | |
| 1 | Ы | | _ | 20. Operation Permit conditions are being violated, (List violations) | |
| <u>ا</u> س | • | | | 21. Refuse is not sufficiently confined or controlled. | |
| 12 | 1 | | - 1 | 22. Refuse is spread in layers thicker than 2 feet. | |
| 14 TIME | Ы | | | 23. Refuse is not compacted or compacted insufficiently. | |
| = | | | 一 | 24. The working face height is greater than 10 feet. | |
| 1 | ٦ | | ᅥ | 25. Equipment on the site is not adequate for proper operation. | |
| E | a | 38 | | 25, Eduthment on the site is not aneduate for proper operations | |
| | ~ | | | SAFETY AND HEALTH | |
| ju . | | 37 | | 26. Salvaging is uncontrolled or is creating a nuisance. | |
| DATE | 3 | 36 | | 27. Rodents, insects, birds, or other vectors are not controlled. | |
| | 3 | | ┙ | 28. Unsafe conditions or equipment exist. (List items) | |
| , | ليد | | | | |
| l | | | | ACCESS CONTROL | |
| | ? → | 빛 | \neg | 29. Access to the site is improper, unsafe, or inadequately controlle | eG. |
| 1-[| $Z\!Z\!I$ | ₹ | | 30. The site is open without an attendant. | |
| 0 | 20 | z | \neg | 31. Information about the site is not posted, (e.g., hours of operation | n) |
| Z | | ž | ╕ | 32. Access to the operating area is poor or unsafe. | |
| FACILITY NO. | 50 | NSPECTOR'S NAM | 4 | OTHER | |
| 1= | | ပ္ထ | \neg | 33. Uncontrolled leachate is visible on, or near the site. | • |
| 12 | 3 | 쭚 | ᇎ | 34. The quality of cover material is inadequate. | * |
| 100 | 3 | Z | 74 | 35. The working face is steeper than a 3 to 1 slope. | |
| 12 | | _ | 3 | 36. Monitoring wells are not operative. | • |
| | | | W | 37. Unapproved wastes have been deposited since last inspection. | |
| e H | 8 | 77 | 34 | | rale" |
| a Sete Sete | , i | _ | -3- | 38. Operator is unfamiliar with site boundaries, operation plan or pe | a mil L |
| | | | | | |

DOVER LANDFILL ED FINLET - SITE OPERATOR SITE SKETCH/COMMENTS (additional sheets attached YES NO) See ATTACHED COVER LETTER #4 - BURNING PILE CONTAINS METAL PEROLE -TOWN MUST APPLY FOR BULNING BERRAIT ANTE WILL LOVER BRISH WOOD & TREE TRIAMINGS. #6\$7- PETUSE MUST BE COMPACTED AND COVERTO WITH A MINIMUM OF B INCINS OF SUITABLE COURT PATTERIAL AT THE END OF EACH WERENL DAY. #9- SOME SIDESLOPES STEEPER THAN! VERTICAL ON 3 HORIZONTAL #17 - BLOWN PAPERS UNCONTROLLED - NEEDS POLICING #34 · COUR MATERIA IS SAND - NOT DECEPTABLE. #38 - OPERATOR UN FAMILIAR WITH OR INSPECTION PEPORTS. # ZO - VIOLATION OF SPEIM CONDITIONS #2,4, MO5;

LOCATION

| CAMED SV. CAMO POLLUTION 25 Post Road Poughkeepsie, N | • | 1/31/ | 80 - N | ouches 37 a. |
|--|---|--|--|---|
| _ § ₈ | • | | | |
| OMPTROLLER, | | DESCRIPTION | SEND CLAIM FORM | |
| | DOVER PLAINS SAMPLE The following charge of three (3) sample | | inalysis | |
| APPROP DEPT. | and analyzed for Ch. Oil/Grease, Phenol, Chrome + 6, | loride, pH, TOC, Spec. Co PCB 1248, 1254, 1260, In Lead, Mercury, Cadmium | onductance, ron, | i |
| ORCERT OK VENDORCERT. OK PEPARTMENTAL CERTIFICATION OF GOODS | was signed by John I | ten of January 31, 1980, Dullaghan. | | \$612.90 |
| BY TE: REO NO. CONTRACT NO. APPROVING AUTHORITY | | | 689 S 1964 | |
| MITORN THIS COPY | WITH CERTI | FIGATE COMPLE | TEO TOTAL | |
| on the claimant montained above is duly authorized retracentation that the foregoing is a correct and true the foregoing in a correct and true the first and and and that the cricist are listed and has not been assigned or pladged and is Chimiest turner carries that neither himself, nor any of the County of Dutchess Claimant, if an amplayed a not sary appears secured in the partermance of duly 47—1932 and No. 89—1934, adopted by the Dutchess Claimant, 1980. | Laboratory Direct to the President or other officer or mo- te execute this proof of claim and the statement of this claim against the statement of this claim against the full amount thereof is due this claim of his employees, having an interest, or officer of the County of Dischass. These The conficerance as a necroscopies. | CAMO POLLUTION C The proby conduct to the County of Durchoss, is County of Durchoss and that the sarriers the d and delivered and that no part thereof he next. direct or indirect in this claim, are officers o conduct that this claim is only for componed with a provision of the County Low and | ONTROL, Dr.COUNTROL, Dr.COUNTRO | INIS FOR S K'E TO DIPT HY A DELIVERED MUST (MEDER. NOTHY NG AT ON C |
| | COUNTY OFF | ICE USE ONLY | | |
| ALTION VOUCHER NO. COM NO | CHECK NO. VENDOR NO | ACCOUNT NO. | AMOUNT | CHANG |
| | | | 9 | • |

APPENDIX A1.1-10

DUTCHESS COUNTY HEALTH DEPARTMENT

MEMORANDUM

REC'D

DUT COUNTS HEALTH DEPT.

TO: J. R. Hill

FROM: W. S. Capowski WSC

SUBJECT: Radiological Search, Town of Dover Landfill

DATE: February 4, 1982

On this date Ellis Adams and I met with Town of Dover Councilman George Morse and Town of Dover Landfill operator Ed Finley to radiologically search an area of the landfill that received a trash shipment from a hospital in Westchester County or Connecticut. The search was made with an Eberline PRM-6 Pulse Rate Meter having a SPA-3 Scintillation Probe Assembly. The result of the search was negative for radiological material.

There is in the Town of Dover landfill, another area of concern to Mr. Morse that was not searched due to excessive mud. This area will be examined as soon as the ground becomes either frozen or dry. You will be advised of my findings at that time. The landfill operator has been instructed not to disturb this area until it is checked.

WSC:bal

cc: E. Adams

D. Ruff

DC: ADM 7 HD - 131 DUTCHESS COUNTY HEALTH DEPARTMENT

MEMORANDUM

TO:

J. R. Hill

FROM:

W. S. Capowski

SUBJECT:

Town of Dover Land-Fill

DATE:

February 18, 1982

A radiological search was completed on the remaining area of the Town of Dover Landfill as described in my memo of 2/4/82. Today's search was negative for radiological material.

WSC:bal

cc: E. Adams

D. Ruff

DC: ADM 7 HD-IOI

DUTCHESS COUNTY BRALTH DEPARTMENT

MEMORANDUM

TO: Ed Cassidy

FROM: Ellis W. Adams

SUBJECT: T. Dover Closed Landfill

DATE: November 2, 1984

In June 1983, the Dover landfill closed to the public. Since that time, this Department has been endeavoring to get the site properly closed.

We have not been successful. We have contacted, by phone, Otto Sprossel, Supervisor, several times with nothing being done.

Besides our responsibilities, we have received several complaints from the property owners, Helen and Leo Mastrochetti (832-6146 after 4 p.m.) from whom the Town leased the site. Their complaints are relative to the site not having been closed properly.

Mr. Sprossel's address is: High View Drive, Wingdale, 12594. Home phone: 832-6243; work phone 832-6611.

I would like to recommend, rather than legal action, a threatening letter with deadline for action or DEC will follow with legal action.

EWA:ds cc: file

FINAL REPORT

WATER RESOURCES STUDY FOR DUTCHESS COUNTY

for

Dutchess County Department of Planning

bу

Robert G. Gerber
Consulting Civil Engineer and Geologist
Ash Point Road
South Harpswell, Maine 04079

June 1982



TABLE 7--ALLOWABLE RESIDENTIAL DENSITIES FOR HOMES ON SEPTIC TANKS AS LIMITED BY WATER QUALITY IMPACTS

| Geologic Unit Code | Soil Type | Natural Recharge <u>Rate</u> | Allowable Dwellings Per Acre | Allowable Acres per Dwelling |
|--------------------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|
| 8 | thin sand and gravel | 0.74 gpm/acre | 1.6 | |
| 9 | thick sand and gravel | 0.93 gpm/acre | | 0.6 |
| ь | thin soil over rock | • | 2.0 | 0.5 , |
| | | 0.35 gpm/acre | 0.75 | 1.3 |
| £ | thick silty till | 0.17 gpm/acre | 0.4 | |
| 1 | lacustrine clay-silt | | U. 4 | 2.7 |
| | and define clay-silt | 0.12 gpm/acre | 0.25 | 4.0 |

FORMULA FOR CALCULATING ALLOWABLE DENSITIES:

$$C_{\text{nitrate}} = C_{b} + \frac{(C_{s} \times Q_{s} \times d)}{(C_{s} \times Q_{s} \times d)}$$

Cnitrate is the resultant concentration of nitrate-nitrogen in ground water as a result of subsurface sewage disposal systems;

maximum acceptable = 10 mg/1

is the background concentration of nitrate-nitrogen in ground water, which is equal to about 0.25 mg/l (parts per million) in a forested area

C is the concentration of nitrate-nitrogen in septic tank discharges that reach the ground water = 30 mg/l

qs is the average leachfield discharge rate per dwelling, which is equal to 70% of 300 gallons per day or 0.15 gallons per minute

d is the rate of natural ground water recharge, averaged over the year algebraically

FINAL REPORT

WATER RESOURCES STUDY FOR DUTCHESS COUNTY

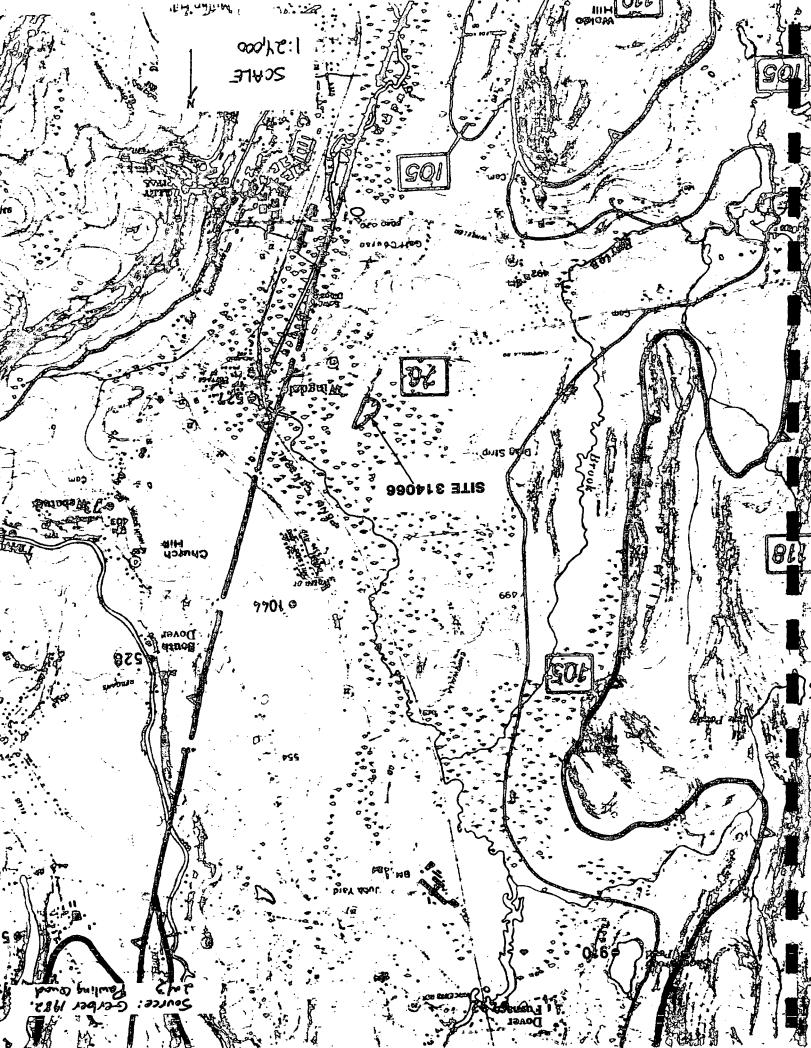
for

Dutchess County Department of Planning

рã

Robert G. Gerber
Consulting Civil Engineer and Geologist
Ash Point Road
South Harpswell, Maine 04079

June 1982



Carbonate Rocks (AQUIFER NOS. 40-81)

و

3 3 3

65

Ow, Ew

| SYMBOL | BEDROCK FORMATION | ROCK TYPES |
|------------------------------|--|---|
| Oba Oew Ow ew es | Balmville Wappinger Group Copake Briarcliff/Pine Plains Stissing Stockbridge | Limestone Limestone, Dolostone, Shale Limestone, Dolostone, Siltstone Dolostone, Shale, Oolite Dolostone, Shale Marble |

BEDROCK AQUIFER NUMBERS and ASSOCIATED ROCK TYPE SYMBOLS

| 40 | Oew; minor Oba | 66 | Ow, ew |
|------------|------------------|----|--------------|
| 41 | OEW | 67 | Oba, Ow |
| 4 2 | O€# | 68 | Oba |
| | | 69 | Oba |
| 43 | 0ew | 70 | Oba |
| 44 | OEw; minor Oba | 71 | Oba |
| 45 | | 72 | Oba |
| 46 | Oew; minor Oba | 73 | O Est |
| 47 | Oew; minor Oba | 74 | 0€st |
| 48 | O€w | 75 | 0est |
| 49 | 0ew | 76 | 0€st |
| 50 | 0€w | 77 | 0est |
| 51 | Oew; minor Oba | 78 | 06st |
| 52 | O€ _M | 79 | 0est |
| 5 3 | 06M | 80 | 0est |
| 54 | O€w · | | 0est |
| 55 | 0 C w | 81 | OESC |
| 56 | Oew; minor Oba | | |
| 57 | ?Oba? | | |
| | - | | |
| | 6 | | |
| 60 | Oba, Ew | | |
| 61 | Ow, &w | | |
| 62 | Es | | |
| 63 | | | |
| 64 | ew, es | | |
| - | - · | | |

SOIL SURVEY

Duichess County New York



Series 1939, No. 23

Izzued December 1955

UNITED STATES DEPARTMENT OF AGRICULTURE

Soil Conservation Service

In cooperation with the

CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION

The soil is best suited to pasture or to a 5- or 6-year rotation consisting of at least 4 years of hay and not more than 1 year of intertilled crops. Alfalfa is well suited and should be included in seeding mixtures for long-term hay. Birdsfoot trefoil may prove equally well suited to hay mixtures and better suited to pastures. The lime requirement of the soil is low, but crops respond to phosphorus.

Dover fine sandy loam, ledgy rolling phase (5-15% slopes) (Dc).—Many outcrops of crystalline limestone characterize this very shallow soil that developed from shallow deposits of glacial till and materials weathered from the underlying crystalline limestone bedrock. The principal rock constitutent of the glacial till is crystalline limestone, which weathers easily into a fine sandy loam. Other rock materials present in smaller quantity are schist, quartzite, slate, and gneiss.

The soil occurs on low hills and knolls that seldom rise more than 100 feet above the floor of the Harlem Valley. The relief is uneven. White sand is common on the surface where a rock outcrop is disintegrating. Where the surface of an outcrop joins the soil, several inches of disintegrating sandy material lie upon the soil.

Both surface and internal drainage are good.

Beneath a pasture sod, the surface soil is a dark coffee-brown mellow or fluffy finely granular fine sandy loam, neutral or alkaline, well penetrated with grass roots, and about 9 inches thick. From 9 down to 17 inches, the subsoil is strongly alkaline, mellow, brown fine sandy loam. Below 17 inches to a depth of 21 inches the subsoil is light yellowish-brown fine sandy loam that is friable, mellow, and slightly calcareous. Below 21 inches and extending to 26 inches is strongly calcareous very light-gray fine sand, which rests on the crystalline limestone bedrock. Roots penetrate all layers but are most abundant in the surface soil.

The soil varies chiefly in depth. Outcrops of the underlying limestone are numerous, but in pockets between them the average depth of soil is about 24 inches. Nevertheless, the layers of bedrock are tilted on edge, and in pockets between outcrops the soil may be as much as 4 feet deep. The soil is moderately eroded in most areas.

A few small included areas have been severely eroded.

Use and management.—The cultivated areas of this soil are shallow but contain fewer outcrops than normal for the entire soil. They are used principally for hay grown in rotation with corn and oats. From 10 to 12 tons of manure and 300 to 400 pounds of 20-percent superphosphate an acre are usually applied for corn, and 150 to 200 pounds of superphosphate for oats. Timothy, red clover, and alfalfa, the principal hay crops, are maintained from 3 to 5 years and then pastured 1 or 2 years before plowing. Top dressings of manure are sometimes applied to hay crops to maintain the stands longer. The soil is inclined to be droughty. Yields vary with the quantity of rainfall during the growing season. Cultivable areas like these are exceptions; the soil normally cannot be cultivated and is pastured

Permanent pasture is generally good during early spring and very poor after July 15. Canada and Kentucky bluegrasses, redtop, and wild white sloves are usuall

aster, wild carrot, and other weeds grow in the poorest pastures, and some brushy growth of hardhack, redcedar, and hawthorn is en-

croaching. Pastures need phosphorus but no lime.

The forests are young, and the stands are irregular. Redcedar, usually the dominant tree, occurs with some gray and white birches, locust, hard maple, and wild cherry. Redcedar and brush soon invade idle areas.

Dover fine sandy loam, ledgy hilly phase (15-30% slopes) (DB).—More strongly sloping and hilly areas associated with the ledgy rolling phase are occupied by this soil. The relief is irregular. Outcrops of distintegrating white limestone are conspicuous and somewhat more numerous than on less steeply sloping phases of Dover fine sandy loam. About 25 percent of this soil has been severely eroded; the rest, moderately eroded. The light fluffy surface soil, the shallowness of the profile, and the irregularity of relief makes danger of erosion great. Cultivation is extremely difficult and usually results in serious loss of soil.

The profile in moderately eroded areas is similar to that of the ledgy rolling phase. The surface soil in severely eroded areas is composed principally of subsoil material; it is light brown and about 6 inches thick. The subsoil, a light yellowish-brown fine sandy loam, extends to a depth of 12 inches. Below 12 inches lies a 4- or 5-inch layer of disintegrated bedrock, a light-gray fine sand that rests on the solid

white limestone.

Use and management.—This soil is mostly in pasture and forest. Pasture is good in the spring but poor in summer. The bluegrass, redtop and wild white clover sods are usually heavy. About a fourth of the pasture is on eroded areas, and erosion is still active in places. Light applications of manure or phosphate would probably improve the pasture so it could hold the soil, but most pastures are not fertilized. The soil is droughty, and in dry seasons the vegetation is severely damaged. The forest is young and consists of the same species as are on the ledgy rolling phase.

Dover fine sandy loam, ledgy steep phase (30-45% slopes) (DD).—This soil has steep irregular slopes and many outcrops of the

underlying rock. Areas vary from 2 to 70 acres in size.

The profile in the moderately eroded areas (65 percent of the phase) is generally similar to that of the ledgy rolling phase but thinner over bedrock in most places. The present surface soil in pastures is about § inches deep and grayish brown. Beneath the surface soil is about 3 inches of light yellowish-brown friable fine sandy loam subsoil, which rests at a depth of about 8 inches on very light-gray fine sand from disintegrated limestone. The solid bedrock normally occurs at of 10 to 15 inches.

Use and management.—Under forest this soil appears to b & lized; slips develop only where forest is pastured. This soil used for forest in most places. Redcedar comes in rapidly an dominant species. Gray and white birches, white pine, black and maple are also present. The forest is all young, which it... that the soil was probably cleared at one time. Erosion is active in most pastures. The sod is not heavy enough to hold the soil: surface Use and management.—Cultivated areas of these soils are used and managed much like the associated better drained soils such as Hoosic gravelly loam, nearly level and undulating phases. A few areas are used for orchards, however, and alfalfa is not commonly used in the hay seedings. A timothy-redtop-alsike mixture, or timothy alone, is most commonly sown for hay. Yields are not much lower than those on the Hoosic soil. Vegetables are grown successfully on some areas.

Old hay meadows are frequently used for pasture and give fair to good yields of timothy, clover, and redtop, together with some weeds, plaintain, devils-paintbrush, and wild strawberry. A few old pastures are run-out and poor and support many weeds and some timothy, redtop, poverty oatgrass, and quackgrass. The few forested areas are mainly in elm, tulip-popular, hard and soft maples, and black birch.

The chief management needs of these soils are use of lime and phosphorus and planting of hay mixtures that include a long-lived legume, such as Ladino clover, that will tolerate imperfect drainage.

Carlisle muck (0-2% slopes) (Ca).—Most of this deep alkaline muck occurs in the limestone or calcareous sandstone areas or along streams flowing from the limestone regions. Probably the largest areas are those along the Swamp River in the southeastern part of the county. These may be 120 to 185 acres in size but are usually 30 to 45 acres. The mineral soil in the muck came chiefly from limestone or calcareous sandstone.

The upper 14 inches is black friable granular slightly acid well-decomposed organic material. Below 14 inches to a depth of 28 inches the muck is very dark brown, lumpy, and weakly acid to neutral. Below 28 inches down to depths of 3 or 4 feet occurs brown partly decomposed sedge and woody peat, somewhat mottled and slightly alkaline. Beneath the peat are bluish-gray fine sandy loams or silts that are alkaline, firm, and friable.

Included with Carlisle muck are a few small areas, 2 to 10 acres in size, of alkaline muck that are comparatively shallow and underlain by marl.

Use and management.—The small cultivated areas of this soil are ditched and used mainly for corn. The forested areas support mainly hardwoods. If areas of this muck could be adequately drained, they would be among the most productive and valuable in the county. Outside this county Carlisle muck is used intensively for such high value crops as celery, onions, carrots, and other vegetables. To date, adequate drainage of most areas in this county has not been feasible.

Chagrin silt loam (0-3% slopes) (Co).—This is the most extensive soil of the Chagrin series. It occurs throughout the county. Small areas (2 to 15 acres) are in the western part of the county in the region where the soils have developed chiefly from glacial drift containing relatively large amounts of calcareous sandstone materials. They occur in the lake-plain region and in the smaller limestone valleys. In Harlem Valley the areas are generally larger (5 to 40 acres). The soil occurs on nearly level first bottoms adjacent to streams. It is well-drained, alkaline in the subsoil, slightly acid to medium acid at the surface, and suited to most crops commonly grown in the county.

The surface soil to a depth of 11 inches in cultivated fiel brown, friable, and of fine granular or crumb structure slight grayish-brown cast when dry and a medium organicontent. From 11 down to 24 inches is a lighter brown to brown friable silt loam of good crumb structure. Down to the soil is slightly to medium acid and has an abundance The subsoil below 24 and continuing to a depth of 36 inches friable light silt loam that breaks up into large irregular that are soft, friable, and alkaline. Below 36 inches are brown stratified sands and gravel that are firm in place, struand alkaline. Roots are present throughout the profile abundant at depths of less than 12 inches. The grayish-brofied sands and gravel occur at the normal water level of the streams.

Use and management.—Approximately 56 percent of Cloam is cultivated, and 30 percent is pastured. Although areas are potential cultivated land, they are usually small erally are associated with soils less well suited to cultivat vegetation in the forested areas consists mainly of elm, so oak, sycamore, willow, hickory, and basswood. Some has white and black ash, and birch are also present.

The cultivated areas are used intensively for corn, oats, and in some areas for vegetables. Regular rotations are not Many farms use no fertilizer because the soil is sufficiently produce good yields. Manure is usually applied for corn or Small quantities of commercial fertilizer are used on the sma in vegetables (sweet corn, beans, tomatoes, beets, and carrot seedings include timothy, timothy and red clover, or alfal etable yields are high, especially where adequate commercial is used.

Most of the pasture is rotated with tilled crops, but a fourth is permanent. Pasture vegetation includes wild wh Canada and Kentucky bluegrasses, timothy, red clover, a percentages of quackgrass and other weeds. The pasture well grazed, well managed, and more productive for a gree of the summer than that on most other soils.

Chagrin gravelly loam, alluvial fan phase (2-5% slopes. This inextensive soil occurs principally in the eastern percounty along the edge of the major valleys where the streethe steeper uplands enter. It is usually in fan-shaped an arrow end of each area pointing upstream. Texture is verification in the mouth. Inasmuch as the channels of these and the mouth. Inasmuch as the channels of these and shallow, the soil is subject to more frequent flooring the loam. Relief is gently sloping from the narrow end of the tip, and drainage is good.

The soil profile is similar to that of Chagrin silt the lighter texture of the surface soil and the presentall parts. The soil is also more open and porous throughout fertile. The apparent organic content of the surface so Surface and internal drainage are good. The soil is alkal average depth of 24 inches. Included are few areas in the

New York State Atlas of Community Water System Sources 1982

NEW YORK STATE DEPARTMENT OF HEALTH DIVISION OF ENVIRONMENTAL PROTECTION BUREAU OF PUBLIC WATER SUPPLY PROTECTION

DUTCHESS COUNTY

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| GO COMMUNITY WATER SYSTEM | POPULATION SOURCE | ID NO COMMUNITY WATER SYSTEM |
|--|---|---|
| Hunicipal Community | | Non-Municipal Community |
| 1 Ameria Water District #1 | 1000 1001.0 | 91 Hi Vu. |
| 4 Beacon City (See also No 3 | . 1300Wells | 92 Hickory Hill Mobile Home Par 93 Hidden Hollow Apartments. |
| Putnam Co) | 5000Mt. Beacon & Melzinga Reservoirs, | 74 FIGSED VALLEY MODILS COURS |
| 5 Beekman Country Club | WO 115 | 95 High Meadows Park Inc. 96 Hoffman Trailer Park. |
| 6 Brettview Acres Water Company. 7 Brinkerhoff Water Company. 8 Central Water Company. | | 97 Hudson River Psychiatric Cen 98 Hudson View Water Works. |
| | | YY NYOB PACK Mobile Manne Feest |
| O Dogwood Knolls | - 900 Wells | 100 Hyde Park Terrace Apartments 101 Kent Hollow Apartments |
| | | 'UE NUMMBI ITALIAT PATK |
| 3 Dutchess Estates Inc | 60 Wells | 103 Lake tills Mobile Home Park. |
| | | 'UJ LUNG WAITON PACK |
| 6 Grandview Water District | 850,Wells | 107 Lamplight Court Mobile Feral |
| | | IUO LEGGAS Angremanta |
| 9 Harbourd Hills Water Company | 350. , .Wells | 109 Little Falls Trailer Park 110 M and D Mobile Home Park |
| | | 111 Maple Lane Trailer Park |
| 2 Hyde Park Fire & Water District | | 112 May Lane Mobile Park. 113 Maynards Mobile Manor. |
| La Grance Club Estates | 65Wells | 114 MCCartha's Trailor Park |
| Little Switzerland Water Company | 120Wells (Infiltration Callery) 600Wells | 115 Mobile Home Gardens. 116 Montclair Townhouse Apartmen |
| Millerton Village | . 1735Wells | 117 Mountain View Mobile Estates 118 Northeastern Conference Nurs |
| | | ITY NOTEDERN Dutchess Mobile Home |
| Payling Village | . 310 Wells | 120 Odells Trailer Park |
| | | '<< Paimer Apartments |
| Poughkeensie City | 265Wells | 123 Parkway Apartments. 124 Partridge Hill Apartments . , |
| | | 157 FULLIOS ICALIAC Pack |
| Revere Park Water Company | .2000Wells | 127 POWELL Road Mobile Park. |
| | | LO CHUSAV & Iralior Park |
| Rokeby: Homes Lnc | .3000,Wells | 130 Rhinebeck Country Village |
| | | 131 MILITEDECK MODILA COURT |
| South Cross Road Vator Company Lan | . 300 Wells | 133 Route 82 Trailer Park |
| Staatsburgh Water Company | - 5/2Wells (Infiltration Gallery) - 1072Indian Kill Reservoir, Wells | 134 RDVHI CEPST Angelmonte |
| Tall Trees | · . 107 | 136 Saith Mobile Home Perk |
| Tivoli Village. | 700. , .Wells | 137 Scenic Apartments. 138 Scenic View Mobile Home Párk, |
| | | (37 SNBQV ACTOS Irailar Park |
| Wappingers Falls Village | . 400 Wells | 140 Shady Homes Trailer Park. 141 Shady Lane Trailer Park. |
| | | 146 SIMOSON MODILE Home Site |
| Windermere Highlands | . 375Wells | 143 Springnill Mobile Home Park. |
| -Municipal Community | | 145 Sunset Knolls |
| Angels Trailer Park | . 40 Wells | 147 Taily Ho Mobile Estates |
| | | |
| Bard College | 72Wells | 150 Unification Theological Church |
| BGB Mobile Home Park | . 20Wells | 121 V81 Kill Park East. |
| Birchwood Mohile Home Park | . 137 Wells | 153 Venture lake Estates |
| Cannon's Trailer Park | . 25Wells | 174 VIII80A CTAST Anartmante |
| Canterbury Carden Aparements | 16Wells | 155 Wappingers Falls Trailer Park. 156 Wassaic Developmental Center. |
| Cedar Lane Mobile Home Park | . 90 Wells | 157 Willow Tree Park. 158 Wingdale Village Park. |
| | | 127 TOUCCEASE MADOE Adult Domo |
| Chelses Ridge Apartments | .120Wells | 160 Woodfield Apartments |
| | | |
| Cooper Road Trailer Park | 30Wells | |
| | | |
| Dutch Garden Anartments | 70Wells | • |
| | | |
| Eleanor Roosevelt | .28Wells | • |
| | | |
| eller Trailer Court | .92Wells | |
| | | • |
| rantoni Villas | 240 Wells | |
| | | |
| FOOD Mosdow Trailer Court | NA. Reservoir | • |
| | | |
| aviland Anartments | 1200 Swamp River | |
| | PINA PINCILA | |
| aviland Mobile Home Park #1aviland Mobile Home Park #2 | .44Wells | |



CONDITIE CATIONS RECORD FORM

| Distribution: () Round 3, Plan I Program Fali |
|--|
| () |
| () Author |
| Person Contacted: Mr. Wagne Elliatt Date: |
| Que to the second of the secon |
| Affiliation: NYSDEC Region III Type of Contact: Influence |
| Affiliation: NYSDEC Region III Type of Contact: Infusion Address: Manfally My Person Making Contact: Son', |
| |
| Commissions Summers: I explained FA' Share I work |
| communications Summary: I explained the Share I work and asked Wayne to enduate whether or net |
| of the things of the trail |
| [and remently utilized reculation of resources |
| (and remently utilized) reculational resources |
| |
| He studed the DEC files and industry |
| The earl stream war indeed a new atronal resource. |
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| (see over for additional space) |
| a Lilla Roma |

All the attacked while 2 42 Dutchess County Wayne Elliste NYSBEC Reg 3 RED Hook C.F (Rokeby Rd.) - Mudder Kill purcom 3-5TAR Anodizing - Wappingers Creek & Hudson River But Join Amenia - WASSAic Creek Andrews App. - Trekson Creek Latko trop. - Trib. to wappingers Creek Wappingers Creek White House Crossing - Noster Kill EAST Fishkill - unnamed Braindly Dye Co. - Fishkill Creek ! Hudson River Orange & Ulster County Al Turi L.F. - Wallkill River F&T DArrigo - Tributary to Orange Lake ? Orange Lake Supont Stauffer - Gidney town Creek Naparoca Paper Mill - Loundons Creek Rock land County * RAMAPO Piece & Dye - RAMAPO River (Sloatsburg)

* RAMAPO LAND Co. - " * KAMADO LAND CO. RAMAPO Incinerator - Unnamed Trib to LABE Lucille ? LAKE Lucille Stoney Point - Hudson Kives Kyto Dipanosties - Tribulary to Deforest Lake ! Deforest Lax Vexter L.F. - Hackensack River CAMP SHANKS - SpArkkill Coeek " Ulster County BATES SCAVENGER' -Sowmill Liver Consail - HAVER Did - Trib E. Brach River 3 E. Branch River Seynow Rapkin - PASCACK Brook

INTERVIEW ACKNOWLEDGEMENT FORM

| Site Name: | Dover Landfill | I.D. Number: | 314066 |
|------------|----------------|--------------|--------|
| | | | |

Person Contacted: Mr. Leo Macrosbotti Date: 16 January 1985

Title: Property Owner

Affiliation: N/A Phone No.: 914-832-6146

Address: Mountain Road

Persons Making Contact: Wingdale, New York 12594 McCleary/McConnell

Type of Contact: In person

Interview Summary:

Mostachetti Mr. Mastrochetti indicated that the landfill began operation approximately 1943-1945 and closed in 1983, although tires, trash, and metal are still exposed. The landfill was originally for Wingdale Village only, and was more recently operated by the Town of Dover receiving residential trash and garbage. The Town of Dover is presently hauling to Amenia. The operation schedule of the landfill included receiving wastes daily until recently when the landfill was closed (Monday and Wednesday). The landfill is approximately 30-40 feet 50-150 deep. The Town of Dover filled in a depressed area of the site. The area is approximately 5 acres. The closest residence to the landfill is at the entrance, approximately 100 feet away, while the closest commercial building is a lumber company. Access to the property is limited by a gate at the entrance road of the unfenced area.

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

| Revisions | (please | write | in corr | ections | to above | transc | ript): | | |
|-----------|---------|-------|---------|-------------|-------------|--------|--------------|-------------|------|
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| Signature | . 6 | - W | Vast | The chi | tt : | | Datata | 2-2 | 1-85 |
| Signature | · | | 1 WHU | CHU | - <u> </u> | | pare: | | |

(47-15-11 (10/83)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

| PRIORITY CODE: | | SITE CODE: | 314066 | |
|---|---|--|--|---|
| | Dover Landfill | | REGION: I | II |
| STREET ADDRESS: | Fleesant Ridge Road | | | |
| TOWN/CITY: Town | of Dover, Village Wingde | ale COUNTY: Dut | chess | |
| | Leo Mo | ostachetti | | |
| NAME OF CURRENT | OWNER OF SITE: Leo Monte | in Pond Wingdale | New York | |
| | | | | 0 |
| TYPE OF SITE: | OPEN DUMP | STRUCTURE TREATMENT | POND | |
| ESTIMATED SIZE | 5 ACRES | | | |
| SITE DESCRIPTION | ON: | | | |
| is located operation More recent waste brown waste. The is located area of the glacial sate River, runsite. The is the Scheresidence is an offi | Landfill is an inactive on private property own about 1943-45 receiving tly the Town of Dover leght to the site was resie site was not permitted on a ridge which is pare marsh was used as a dind and gravel deposits as through the marsh and nearest reported commun reiber Water Works locatis 900 feet to the south ce building for a peat mest. There are probably concern. | ed by Leo Mostacher residential waster ased and operated dential with a small to receive industrially surrounded sposal area. Soil and Carlisle Muck. is located about 3 ity well developed ed 0.42 miles to the west, and the near ining operation located about 10 ity well as to the search and the near ining operation located as the search and the search and the search and the search as the sear | tti. The site beg from the Village of the site. Most of all fraction of com- rial waste. The laby marsh. An unap- s underlying the s A permanent streat 00 feet northeast on the aquifer of the north. The near est commercial buil cated about 1,500 | gan of Wingdale of the mercial landfill oproved site are am, Swamp of the of concern arest ilding feet to the |
| | E DISPOSED: CONFIRME TITY OF HAZARDOUS WASTES TYPE known | DISPOSED: | SPECTED Unk UANTITY TONS, G | nown DRUMS ALLONS) |
| 011 | MIOWII | | OIMIII OWII | |
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| TIME PERIOD SITE WAS USED FOR WAZARDOUS WASTE DISPOSAL: | |
|---|---|
| | 45 TO <u>June</u> , 19 <u>83</u> |
| OWNER(S) DURING PERIOD OF USE: Leo Mostachetti | |
| SITE OPERATOR DURING PERIOD OF USE: Town of Dover | |
| ADDRESS OF SITE OPERATOR: Pleasant Ridge Road, Wingdale, New York 12594 | |
| ANALYTICAL DATA AVAILABLE: AIR SURFACE WATER GROUNDWATER | |
| SOIL | SEDIMENT NONE X |
| CONTRAVENTION OF STANDARDS: GROUNDWATER DRINKING WATER | |
| SURFACE | WATER AIR |
| COIL TYPE. Glacial outwash sand a | and gravel deposits (Dover fine sandy loam) and |
| DEPTH TO GROUNDWATER TABLE: | |
| Dutchess County | |
| LEGAL ACTION: TYPE: Dept. of Health | |
| STATUS: IN PROGRESS X | COMPLETED [|
| REMEDIAL ACTION: PROPOSED | UNDER DESIGN [] |
| IN PROGRESS | COMPLETED |
| NATURE OF ACTION: | |
| ASSESSMENT OF ENVIRONMENTAL PROBLEMS: | |
| The potential for ground and surface water contamination exists, although waste characteristics are unknown. The landfill has not been properly closed—there is waste protruding through the cover material, the quality of cover material used is not adequate, and part of the marsh surrounding the landfill was used as a disposal area. Leachate stains have been observed at the perimeter of the landfill. Access to the site is not restricted. | |
| ASSESSMENT OF HEALTH PROBLEMS: | |
| No health problems are known to exist. The site is easily accessible to the public. | |
| | |
| | |
| PERSON(S) COMPLETING THIS FORM: | |
| FOR NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION | NEW YORK STATE DEPARTMENT OF HEALTH |
| NAME EA Science and Technology | NAME |
| TITLE | TITLE |
| NAME | NAME |
| TITLE | TITLE |
| DATE: 18 July 1085 | DATF. |

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